



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
NATIONAL CAPITAL REGION



ANNUAL REPORT 2024





DENR-NCR ANNUAL REPORT 2024

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MESSAGE FROM THE REGIONAL EXECUTIVE DIRECTOR

This Narrative Accomplishment Report serves as a testament to our collective dedication and unwavering commitment to environmental protection, sustainable development, and the enhancement of our quality of life in Metro Manila.

2024 has been a year of significant progress for DENR National Capital Region, driven by our determination to preserve and rehabilitate our natural resources amidst the urban complexities of the region. Our achievements are not just numbers or programs; they are the result of the hard work, collaboration, partnership, and resilience of each individual and group that has joined forces in protecting our environment and its natural resources.

This year, we reached a pivotal moment in our journey toward modernizing and improving how we serve the public. It was a year when we embraced significant changes in our systems, most notably transitioning to an online platform for many of our major transactions. This shift, driven by necessity and innovation, has proven to be a vital step forward, but it also presented challenges that tested our resilience and adaptability. This shift to online services is not just about technology; it is about ensuring that we are more accessible, more efficient, and more transparent in our work for the benefit of every citizen in Metro Manila.

This year has been a remarkable one for the DENR-NCR, as we not only embraced the shift towards digitalization but also achieved significant milestones that reflect our commitment to excellence and global standards. One of the standout accomplishments that I am particularly proud of is the successful continuation of our **Triple ISO Certification**, which highlights our dedication to maintaining world-class standards in every facet of our work.

Thanks to your meticulous efforts and dedication, we have successfully maintained our **ISO 9001:2015 (Quality Management)**, **ISO 14001:2015 (Environmental Management)**, and **ISO 45001:2018 (Occupational Health and Safety)** certifications. These achievements are a testament to our collective commitment to operational excellence, environmental stewardship, and the well-being of our people. They reflect the quality of service we aim to provide, the sustainability practices we uphold, and the safety standards we prioritize to protect our staff and stakeholders.

A year of a testament to the **passion and dedication** of the DENR-NCR team for environmental stewardship. Our ongoing efforts have made significant strides in various projects that have not only improved the quality of our environment but have also contributed to the health and well-being of the people in Metro Manila.



ATTY. MICHAEL DRAKE P. MATIAS

REGIONAL EXECUTIVE DIRECTOR



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Our **Manila Bay Rehabilitation Project** continues to be a focal point of our environmental efforts. The ongoing restoration of this vital body of water serves as a symbol of our resilience and our long-term commitment to cleaning and protecting our natural resources. Similarly, our efforts along the **Pasig River** have made meaningful progress. This river, once a lifeline for many, now stands as a beacon of hope for the restoration of our urban waterways. In addition to these major projects, our **Quick Response Teams** and the Field Offices have demonstrated **exceptional resilience** and **efficiency** in addressing environmental concerns and emergencies. Whether it was responding to pollution incidents, managing waste management issues, or addressing natural disasters, these teams have exemplified what it means to be proactive, agile, and committed to serving the public in times of need.

But we know that challenges remain. The effects of climate change, rapid urban growth, and pollution continue to threaten the delicate balance of nature in our region. It is for this reason that we must remain steadfast in our mission and vision—fostering environmental stewardship in every sector, from government to grassroots communities.

As we move forward into 2025 and beyond, let this report serve as both a reflection and a call to action. We cannot afford to rest on our laurels. Our work is far from over. We will continue to innovate, collaborate, and push the boundaries of what is possible in creating a sustainable environment for the people of Metro Manila.

In closing, I express my deepest gratitude to all our partners, stakeholders, and the DENR-NCR team for their tireless efforts in helping us achieve these milestones. Together, let us strive to create a region that is not only resilient and sustainable but one that truly honors the values of environmental justice and equity.

Thank you, and may we continue to nurture cities for a sustainable future!

Maraming salamat!

ATTY. MICHAEL DRAKE P. MATIAS



EXECUTIVE SUMMARY

The Department of Environment and Natural Resources – National Capital Region (DENR-NCR) continues to play a pivotal role in safeguarding and managing the region's natural resources, fostering sustainable development, and preserving the environment. This achievement is made possible through the collective efforts of its dedicated members and the strategic guidance of its leaders.

At the heart of DENR-NCR's successes is its committed team, comprising a diverse group of environmental scientists, conservationists, foresters, policy experts, and field personnel. Their unwavering dedication and expertise form the foundation of the agency's accomplishments. Every day, these professionals work tirelessly across various settings, from protected landscapes to urban environments, applying their knowledge and skills to address complex environmental challenges.

The leadership at DENR-NCR has played a crucial role in guiding the agency toward achieving its goals. Division heads, with their extensive experience, expertise, and unwavering commitment to environmental conservation, have been instrumental in shaping the agency's strategies and initiatives. Their forward-thinking leadership has established clear objectives, fostered innovation, and ensured that all members are united in effectively addressing critical environmental issues.

Throughout the year, DENR-NCR demonstrated exceptional performance in fulfilling its responsibilities and mandates. The agency tackled a range of complex challenges, including the rehabilitation and conservation of Manila Bay and its surrounding waterways, the protection and restoration of forests, and the preservation of coastal and marine ecosystems. Other key focus areas included climate change mitigation, land administration and management, and overall organizational improvement. Despite these complexities, the agency's members worked collaboratively, leveraging their expertise and innovative approaches to achieve significant and meaningful results.

In 2024, DENR-NCR responded proactively to environmental crises and emerging challenges. Whether combating illegal logging, leading reforestation efforts, safeguarding diverse plant species, or promoting sustainable practices, the agency demonstrated agility and resilience in addressing a wide range of environmental issues.

Collaboration with various stakeholders—including local communities, NGOs, and the private sector—was pivotal in fostering a collective approach to environmental conservation and sustainable development. Under the guidance of its leadership, DENR-NCR emphasized the importance of policy reforms and strategic planning. The agency prioritized initiatives to strengthen environmental regulations, promote sustainable practices, and integrate innovative technologies into conservation efforts.



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This forward-thinking approach has enabled DENR-NCR to remain adaptable and responsive to the ever-evolving environmental challenges it faces.

The agency's commitment to improvement extends deeply into its internal operations. Recognizing the value of streamlined processes and optimized efficiency, DENR-NCR has made significant progress in enhancing its internal systems. By refining administrative workflows and embracing advanced technological solutions, the department has prioritized operational effectiveness. This focus has not only increased productivity but also fostered a culture of innovation and collaboration within its workforce.

Strengthening these internal mechanisms ensures that external projects and initiatives are supported by a robust and efficient operational foundation, enabling greater impact and success in fulfilling the agency's mission to preserve and protect the environment.

DENR-NCR has undergone a transformative process, emphasizing transparency and enhancing public service. Through proactive measures such as improved access to information, streamlined communication, and a commitment to open dialogue, the department has greatly enhanced its transparency. By fostering accountability and openness, DENR-NCR actively engages with the public, providing comprehensive updates on environmental initiatives, policies, and projects.

Below is a brief overview of the region's performance in implementing DENR's priority programs, with further details outlined in the following sections.

Enhanced National Greening Program (eNGP)

DENR-NCR has established a total of 1,577.26 hectares of National Greening Program (NGP) sites in urban parks, center islands, mini forests, schools, and other locations, with a significant portion situated in the La Mesa Watershed Reservation. This achievement has been made possible through the collaboration of partners and stakeholders.

The office operates and maintains three nurseries: the Mechanized and Modernized Forest Nursery (MMFN), the La Mesa Watershed Nursery, and the North Avenue Production Nursery. These nurseries play a vital role in producing high-quality planting materials and serve as repositories for seedlings obtained from tree-cutting permits issued within Metro Manila.

In 2024, the office produced a total of 367,559 seedlings. These were distributed to a wide range of stakeholders, including government agencies, local government units, private individuals and groups, NGOs, academic institutions, and residents. The distribution supported various initiatives, such as food security, urban greening, beautification, and the rehabilitation of green spaces within and beyond the National Capital Region.



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Enhanced Biodiversity Conservation

In compliance with Republic Act No. 9072 (National Caves Resources Management and Protection Act of 2001) and DENR Administrative Order No. 2003-29, the office conducted quarterly monitoring activities at Apugan Cave throughout 2024. These assessments aimed to evaluate the cave's condition, identify potential threats, and implement necessary conservation measures. To promote the conservation and sustainable management of Apugan Cave, the office also organized 12 cave visits and 12 cave lectures throughout 2024.

To monitor changes in landscape and biodiversity over time, the Region reassessed the Las Piñas-Parañaque Wetland Park (LPPWP) and the Lower Marikina Watershed. These assessments adhered to the guidelines outlined in BMB Technical Bulletin No. 2018-02.

The Heritage Tree Program, a pioneering initiative launched by DENR-NCR through Memorandum Order No. 1, Series of 2019, aims to recognize and protect trees that possess significant ecological, historical, and cultural value. These trees, characterized by their age, rarity, native or endemic status, and a minimum girth of 100 cm (measured 0.5 meters above the ground), are nominated by local communities.

In 2024, DENR-NCR facilitated the proclamation of two new Heritage Trees: a Balete Tree (*Ficus* sp.) in Maybunga Rainforest Park, Pasig City, and a Balete Tree in Bonifacio Global City, Taguig City.

Issuance of Wildlife Permits

This year, the DENR-NCR issued a total of 2,378 various wildlife permits and 20 endorsements for CITES Export, CITES Re-Export, and CITES Import Permit applications, which were forwarded to the Biodiversity Management Bureau (BMB), all with the recommendation for the issuance of the necessary CITES permits. WRPS accomplished and surpassed the majority of its targets.

With 650 Wildlife Import Certifications (WICs) issued this year—almost 100 more than last year's total of 552—it holds the record for the most WICs issued since 2004. The majority of these certifications were for various high-end wildlife by-products (e.g., bags, ready-to-wear items, scarves, key holders, shoes, card holders, etc.) imported by well-known luxury brands from Italy, France, and Singapore.

Intensified Forest Protection and Anti-Illegal Logging Program

As the hub of trade and commerce in the nation, the National Capital Region, under the stewardship of DENR-NCR, has prioritized vigilant monitoring of all forest products entering and leaving the capital. This comprehensive oversight also extends to various forms of wildlife, their by-products, and derivatives.

The region maintains a robust database and leverages advanced technological tools to safeguard not only its forest resources but also those from neighboring regions. This concerted effort underscores DENR-NCR's unwavering commitment to stringent monitoring and the protection of invaluable forest resources, ensuring their preservation and sustainability for future generations.



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In Calendar Year 2024, the region, in collaboration with other law enforcement agencies, conducted and assisted in the apprehension and seizure of 32,057.35 board feet of illegal forest products with an estimated market value of Php 1,248,169.29 . This achievement highlights the Division's proactive efforts in upholding regulatory standards and preserving the integrity of our natural resources.

In 2024, the DENR-NCR issued a total of 304 wood-based permits, surpassing the target of 90. For chainsaw permits, there was increased compliance with laws regarding ownership, trade, and use, attributed to strict enforcement of Republic Act No. 9175 and various information campaigns. Lastly, 520 tree cutting, earthballing, and pruning permits were issued, exceeding the annual target by 173.33%.

Improved Land Administration and Management

In 2024, the DENR-NCR successfully processed 959 Residential Free Patent Applications (RFPAs) through the continuous implementation of its internal controls.

The office participated in the Handog Titulo Program conducted by the Local Government of Taguig City on September 20, 2024, where 152 titles were awarded under the Residential Free Patent disposition. Similarly, on December 11, 2024, the region conducted another Handog Titulo Program for the recipients in Barangay San Isidro, Parañaque City, awarding 219 titles under the same program.

As part of its Free Lot Survey activity, the region completed surveys for 485 lots, with many claimants intending to submit patent applications under the Residential Free Patent Act. To support this initiative, the region achieved several key milestones: it technically verified and approved 1,960 survey plans, conducted 147 technical inspections on various types of surveys, issued 147 survey orders and authorities, and performed 24 advanced surveys for verification and relocation purposes. These accomplishments underscore the region's dedication to improving land administration processes and enabling more Filipinos to secure land ownership through streamlined and efficient services.

Moreover, this year, a total of 5,026 approved surveys, consisting of documents, plans, and lot data computations, were scanned for digital conversion into the LAMS-DCDB. For document, plan, and lot data computation uploads, 3,035 surveys were successfully uploaded, comprising 1,467 for 2024, 142 for 2023, and an additional 1,426 from previous years. A total of 18,211 lots of data were encoded and validated into the system. Meanwhile, in data migration, 433 approved surveys were transferred from LAMS version 5.1 to LAMS version 4.8.



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Manila Bay Rehabilitation Program (MBRP)

The DENR-NCR's unwavering dedication to rejuvenating Manila Bay and restoring its waters for the benefit of all Filipinos continues. Collaborating closely with Local Government Units (LGUs) within their jurisdiction, the Field Offices diligently coordinated the execution of various initiatives across the three program phases. Through comprehensive planning and stringent implementation, they carried out numerous activities aimed at revitalizing the bay.

Under Phase 1 (Cleanup/Water Quality Improvement) of the Manila Bay Rehabilitation Program (MBRP), a total of 1,236,084 sacks of waste were collected in 2024, equivalent to 37,082,520 kilograms (assuming an average weight of 30 kg per sack). Included in the total collection were 106,889 sacks of water hyacinth collected from 677 clearing operations, carried out by both Metropolitan Environmental Office (MEOs) and 21,972 volunteers. The Estero Rangers led the total waste collection, with 1,022,037 sacks primarily achieved through their daily cleanup of waterways.

These initiatives underscore the vital role of community and inter-agency coordination in protecting and restoring the beauty of Manila Bay and its surrounding ecosystem. The cleanup drive specifically targeted priority areas to maximize impact and ensure proper disposal of waste materials.

The aim of these efforts is to mitigate solid waste accumulation along estuaries and water channels while ensuring unimpeded water flow to prevent stagnation. Notably, all four MEOs diligently fulfilled their duties by thoroughly monitoring and patrolling every waterway within their respective jurisdictions, achieving a commendable 100% coverage. This accomplishment reflects their unwavering commitment to overseeing and preserving the health of these vital natural conduits.

This year also marks the establishment and operationalization of the Manila Bay NCR Command Center for real-time monitoring and surveillance activities. The rationale behind creating the mobile digital monitoring system is to ensure the continuous monitoring of waterways, rivers, and creeks, especially in the event that funding for the Estero Ranger Program is reduced in the coming years.

In Phase 2 (Rehabilitation and Resettlement) of the Manila Bay Rehabilitation Program (MBRP), DENR-NCR took proactive steps to address gaps in land data. They engaged the expertise of the Land Registration Systems, Inc., under the Land Registration Authority (LRA), through a collaborative Memorandum of Agreement for Geospatial Query Services.



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From 2019 to 2024, the survey team delineated a total of 429,394.27 meters of waterways, which represents 53.50% of the total length of water bodies within the National Capital Region. This milestone reflects significant progress in identifying and mapping these waterways as part of ongoing efforts to rehabilitate and manage Metro Manila's aquatic ecosystems.

In 2024, the team surveyed 48,182.089 meters of 20 waterways, surpassing the annual target of 14 rivers by 142.86%. During the delineation process, the team identified a total of 25,829 illegal structures encroaching on designated legal easements and waterways. These structures obstruct water flow, contribute to environmental degradation, and pose significant challenges to rehabilitation and flood mitigation efforts. Addressing these encroachments is a key component of the program's objectives.

Additionally, the team prepared 64 completed staff work reports covering the period from 2019 to 2024, as shown in Table 10. These reports present findings from ground surveys, drone imaging, and mapping, and serve as a reference for planning, enforcement, and coordination.

For Phase 3 (Protection and Sustainment) of the MBRP, the unit regularly coordinates with the concerned LGUs and barangays, with the assistance of the MEOs, to identify areas suitable for greening interventions. From January to December 2024, the unit conducted 24 site assessments along easements of major rivers and creeks in different cities in Metro Manila. Fourteen areas were identified as suitable for greening interventions (direct planting of bamboo and indigenous trees), while two areas were identified for the Linear Park Enhancement Project, covering a total area of approximately 15,913 m².

Pasig River Rehabilitation Program (PRRP)

The Pasig River Rehabilitation Program aims to sustain rehabilitation efforts and improve the water quality of the Pasig River System. The rehabilitation of the Pasig River System will help ensure effective ferry operations along the river, complement the rehabilitation efforts in the Manila Bay Region, and sustain the ecological services provided by both the Pasig River and Laguna Lake.

For FY 2024, a total of 531,701 sacks, equivalent to 15,951,030 kilograms of solid waste (including biodegradable, non-biodegradable materials, and water hyacinths), were collected from the Pasig River and its tributaries. According to the waste collection data, the Pasig River had the highest volume of sacks collected, with 138,033 sacks (4,140,990 kilograms). This can be attributed to the large amount of water hyacinths collected along the river using the four trashboats deployed in the area. The San Juan River followed with 112,385 sacks (3,371,550 kilograms). The San Juan River serves as a catch basin for solid waste coming from its tributaries, including the San Francisco River, Talayan Creek, Mariblo Creek, Diliman Creek, Kamias Creek, Ermitano Creek, Maytunas Creek, and Buhangin Creek.



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To prevent floating waste from directly entering the Pasig River, ten trash traps were installed in priority areas, along with 395 trash barriers donated by the Rotary Club of Manila and two trash booms donated by RiverRecycle. These serve as efficient and effective solid waste collection mechanisms along the priority areas of the Pasig River System.

For the Water Quality and Waste Management Program, the office conducted regular water and sediment sampling at nineteen (19) monitoring stations within the Pasig River System. Six of these stations are located along the main Pasig River, five are in the Marikina River, three are in the Taguig-Pateros River, and three stations are in the minor tributaries directly draining into the Pasig River.

The PRCMO conducted river profiling, which included an inventory of establishments along the 20 tributaries of the Pasig River System. A total of 1,295 commercial and industrial establishments were recorded from February to September 2024. The majority of the establishments were commercial, including multi-use buildings, retail shops, offices, malls, and food establishments. The gathered data were then cross-checked with the Laguna Lake Development Authority (LLDA) database to assess compliance with environmental permits.

For easement and delineation recovery, the unit completed drone and ground activities along three waterways: Estero dela Reina, Estero de Kabulusan, and Estero de San Lazaro. As of November 30, 2024, the unit is still finalizing the preparation of all Completed Staff Work (CSW), including data processing and map generation. Once completed, all CSWs will be submitted to the DENR Central Office for official endorsement to the appropriate agencies, such as the National Housing Authority (NHA) and the Department of Human Settlements and Urban Development (DHSUD), for appropriate action on the identified Informal Settler Families (ISFs) along the legal easement.

Specifically, a total of 2.899 kilometers were demarcated for Estero dela Reina and 1.574 kilometers for Estero de Kabulusan. The unit is currently finalizing the processing of static survey data to determine the actual length of demarcated easements for Estero de San Lazaro.

For the repair, maintenance, and protection of developed easements and linear parks, seven (7) easements and linear parks were rehabilitated. Various greening and beautification activities were completed, including repainting walkways, perimeter walls, and repairing damaged concrete paths and plant boxes. The table below shows the rehabilitated linear parks, along with photo documentation.

Other Accomplishments

Aside from the priority programs, the region was able to implement initiatives aimed at improving operational, fiscal, and administrative performance.

The Personnel Section, through the Human Resource Management Promotion and Selection Board (HRMPSB), processed a total of 77 appointments, including 37 original appointments, 32 promotions, and 8 reappointments.



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Throughout the year, the office conducted 11 learning and development activities, with a total of 681 participants.

The office also met the set requirements for all four aspects of HR management: Recruitment, Selection, and Placement; Learning and Development; Performance Management; and Rewards and Recognition.

The Legal Division, under the Management initiative, through Special Order No.2024-525 has successfully achieved zero backlog of cases. Zero backlog means those cases ripe for or submitted for resolution were successfully resolved/accomplished.

The regional office also established several initiatives, including: (1) the Gawad Taga-Ilog Search for the Most Improved Estero in Metro Manila, aimed at recognizing the initiatives and innovations of local government units—especially barangays along rivers and esteros—in keeping their waterways clean and free of trash. This search is organized in line with the ongoing rehabilitation of Manila Bay; and (2) the DENR National Capital Region Off-Campus Program on Master in Environmental Science at the University of the Philippines – Los Baños (UPLB), a brainchild of Regional Executive Director Jacqueline A. Caancan, which provides employees with an opportunity to pursue higher learning and earn a degree through an alternative learning setup.

A significant milestone for DENR-NCR this year is its continued effort to obtain ISO certifications for its Quality Management System (ISO 9001:2015), Environmental Management System (ISO 14001:2015), and Occupational Health and Safety Management (ISO 45001:2018). DENR-NCR is the first regional office of the department to successfully secure triple ISO certification.

Additionally, DENR-NCR developed new systems such as the Tree Cutting Permitting System, which facilitates the online issuance of tree cutting permits; the Certificate of Transshipment System (CTS), which simplifies the online issuance of transshipment certificates; and the New ODTS Version 5, a document tracking system used by all divisions.

Assessment of Physical vis-à-vis Finance Performance

The DENR-NCR has an operational budget of Php 692,492,000.00, as per the approved General Appropriations Act (GAA) for its target programs, projects, and activities for CY 2024, with an average Disbursement Rate of 97%.

Out of this budget, Php 176,349,000.00 is allocated for Personal Services, Php 41,328,000.00 is for Capital Outlay, and Php 474,815,000.00 is for Maintenance and Other Operating Expenses. The implementation of the Manila Bay Rehabilitation Program received the largest share of the Region's budget, while the smallest share was allocated to activities under the Wildlife Resource Conservation Program.

All programs and projects were properly implemented, including the provision of benefits and a conducive working environment for the DENR National Capital Region workforce.



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HIGHLIGHTS OF ACCOMPLISHMENTS



GENERAL ADMINISTRATION AND SUPPORT SERVICES

The DENR-NCR demonstrated and emphasized the crucial role of support services in meeting objectives, particularly in continuing to be dedicated in performing a wide range of services throughout the region now that everything have returned to normal. These efforts not only ensured target completion but also guaranteed the sustainability of support services.

GENERAL SERVICES

The office remains responsible for overseeing and maintaining the DENR-NCR premises, providing prompt and effective responses to employee requests, and ensuring the safety and protection of all offices.

Notable accomplishments of the section for 2024 are the following:

- Repair and maintenance of fourteen (14) buildings, to wit:

Building 1, NEC

Building 2, NEC

DENR-NCR Production Nursery, North Ave., Q.C.

Enforcement Division/Production and Forestry Management Section

Mechanized and Modernized Forest Nursery, DOST, Taguig City

La Mesa Watershed Nursery, Quezon City

Visitors' Center, Las Piñas Parañaque Wetland Park

Protected Area Management Office (PAMO), LPPWP

Port Integrated Clearance Office (PICO), Manila

Wildlife Traffic Monitoring Unit (WTMU), NAIA Manila

Metropolitan Environmental Office - North Field Office (Rented)

Metropolitan Environmental Office - South Field Office (Rented)

Metropolitan Environmental Office - West Field Office

Metropolitan Environmental Office - East Field Office



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Manila Bay Site Coordinating/Management Office - Operation Center, NEC

Clinic

Command Center

Staff House

- M5A Pest Control Services were performed quarterly at DENR-NCR buildings, perimeter areas, and a container van. This proactive measure is essential for ensuring a clean, safe, and healthy working environment, effectively safeguarding against harmful insects that pose health risks and threaten the structural integrity of DENR-NCR.
- Tree cutting and pruning were decisively conducted five times in 2024 on April 5, 27, 28, May 1, and June 13. The General Services Section effectively partnered with the Forest Utilization Section to inventory trees at the National Ecology Center, and coordinated with the Parks Development and Administrative Department of Quezon City Hall to ensure the successful execution of cutting and pruning activities.
- The cleaning of the water tank on the ground floor and air-conditioning units in various offices was completed. The metal bars on the ground floor, office walls, plastic trash bins, wooden plant boxes, and signage were repainted.
- Repairs and replacements included the ceiling in the Administrative Division Office, the driveway near Building 1's waiting area, door hinges, handles, closers, knobs, leaking pipes, faucets, goose-necks, bidets, sink drains, LED tube lights, fluorescent bulbs, LED panel lights, stainless steel railings, manhole covers, tables, the "No Gift Policy" sign, indoor and outdoor unit control boards, and air conditioning units across various offices.
- Installations were made, including a priority lane and seating in the ground floor lobby of DENR-NCR Building 1, stainless steel railings, lighting fixtures, switches, electric and exhaust fans, wall partitions, signage, electrical power outlets, circuit breakers, door closers, panic doors, padlocks, chains, pressure pumps, air-conditioning units, PA systems, pullback cables, and fiber optics.
- Performed regular preventive maintenance on the air-conditioning units in each DENR-NCR office with an air-con unit. This maintenance helps the air-conditioning units operate effectively and efficiently while preventing malfunctions.
- The region issued One Hundred Sixteen (100) Property Acknowledgement Receipts (PAR) and Four Hundred Seventeen (371) Inventory Custodian Slips (both high-value and low-value). Successfully this section prepared the Annual Physical Count Report for Property, Plant, and Equipment for 2024.
- Repaired and maintained our Forty-seven (43) vehicles resulting in a more conditioned and road-worthy service fleet and translating to more efficient fuel consumption.



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- Registering and insuring our vehicles promptly is essential to avoid costly penalties for late registration.
- Prepared and submitted a 5-year re-fleeting plan for CY 2025-2028 which pertained to the acquisition of new vehicles to augment our service vehicle fleet.
- Committed to enhancing security and efficiency by implementing the Vehicle Car Pass system for all vehicles entering the National Ecology Center (NEC) compound.

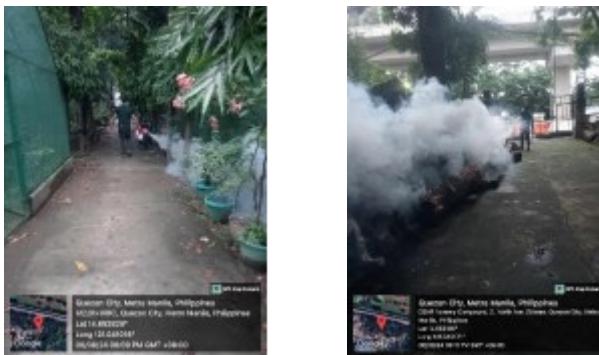


Figure 1. Pest Control Activity at Building 1 & 2, perimeter areas and Container Van



Figure 2. Tree Cutting and Tree Pruning at National Ecology Center



Figure 3. Installation of priority lane, priority seating, and replacement of no gift policy sign at Building 1 lobby area



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RECORDS

In 2024, the Region assisted a total of 2,299 clients, providing support to technical services. Furthermore, the unit delivered and mailed 2,632 communications that were vital to the success of these services.

CASHIER

This office ensured the smooth processing of emergency purchases to help achieve targets by managing cash advances. Throughout the year, a total of 196 cash advances were administered and replenished.

PERSONNEL MANAGEMENT

The Regional office through the Human Resource Management Promotion and Selection Board (HRMPSB) was able to process 77 appointments of which 37 were original appointments, 32 were promotional, and 8 reappointment.

The Personnel Section exceeded expectations by preparing 1,336 payrolls, well above the target of 743, ensuring timely and accurate compensation for employees. Additionally, 189 service records were issued, surpassing the target of 62, demonstrating the team's responsiveness in meeting personnel needs for career and official documentation.

A total of 7,571 Daily Time Records (DTRs) were printed and issued, exceeding the target of 6,581. This achievement reflects efficient management of employee attendance, ensuring accurate handling of timekeeping throughout the year.

The DENR Personnel Information System (DPIS) was continuously updated throughout the year, ensuring that all personnel records remained current and easily accessible for efficient human resource management within DENR NCR.

The Statement of Assets, Liabilities, and Net Worth (SALN) of all DENR-NCR permanent employees was carefully reviewed and successfully submitted to the Ombudsman, ensuring compliance with government regulations and demonstrating our commitment to transparency and accountability.

The Personnel Section closely monitored the submission of Individual Employee Performance Commitment and Review Forms (IPCR) for all staff. A detailed report was also prepared, outlining the status of these submissions, ensuring the efficient and effective management of the agency's performance appraisal system.



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HUMAN RESOURCE DEVELOPMENT

The office not only organizes training and seminars but also focuses on learning and development initiatives for regular employees. It involves working within frameworks designed to enhance employees' knowledge and skills, enabling them to contribute to the organization's overall effectiveness and efficiency.

The significant learning and development interventions can be accounted for by the accomplishment of training that focused on the four (4) core competencies that embody the department's training and development goals. These included the ENRA Courses (Basic & Frontline) and SDC Track 2 with a total of 54 and 29 participants respectively, Orientation for Newly Hired Employees, Specialized Training (Management & Technical Services), and other learning and development interventions such as a Lecture series, Occupational First Aid and Basic Life Support CPR/AED Training, Bomb Threat Management Training, Fire Safety Seminar and Drill and the Orientation on the Individual Development Plan for Newly-Hired Employees.



Figure 4. ENRA Frontline Course last March 2024



Figure 5. Specialized Learning on Technical Services:
Protected Area Management last April 2024



Figure 6. Lecture Series on Public Speaking last April 2024

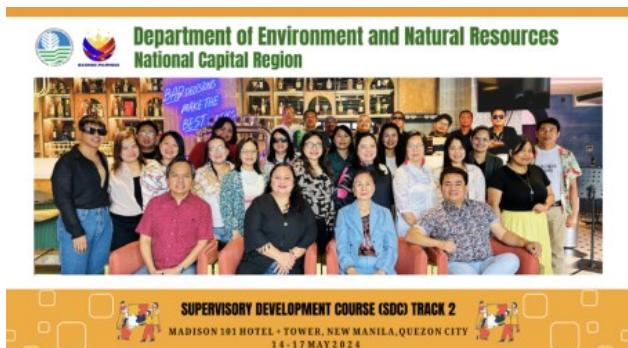


Figure 7. Supervisory Development Course Track 2 last
May 2024



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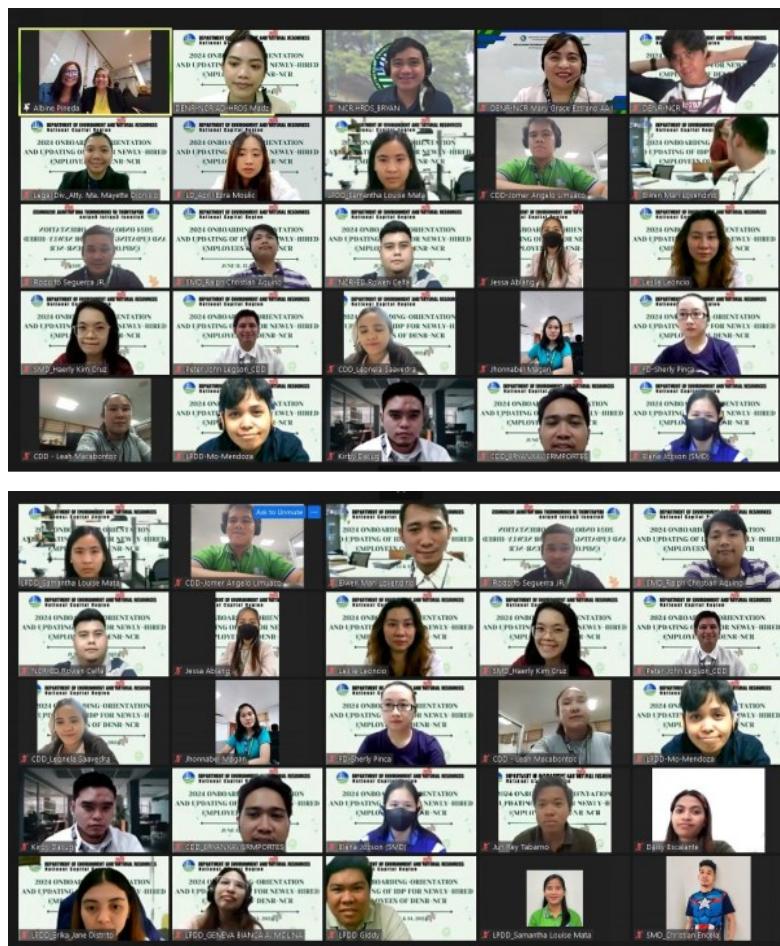


Figure 8. Orientation for Newly Hired Employees last June 2024



Figure 9. ENRA Basic Course last July 2024



Figure 10. Occupational First Aid and Basic Life Support
CPR/AED Training last September 2024



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Figure 11. Specialized Learning and Development on Management Services: Project Management last September 2024



Figure 12. Bomb Threat Management Training last October 2024



Figure 13. Fire Safety Seminar and Drill last October 2024



Figure 14. Orientation on the Individual Development Plan for Newly-Hired Employees December 2024



SUPPORT TO OPERATIONS

PLANNING, MONITORING AND EVALUATION

Maneuvered by very able leaders from top management levels down to the section and unit heads, making collective decision and putting them into effect, the Region's planning process supplied the means to deliver consistent quality performance in the 10 priority programs. Services were modified to effectively utilize and manage available resources and optimize them in areas where they were needed the most. This led to productive results vis-à-vis the FY 2024 Work and Financial Plan (WFP) in accordance with DBM and Central Office directives. The Monitoring and Evaluation Section conducts Full-Time Delivery Unit (FDU) every quarter to properly monitor the physical and financial status of the programs of DENR-NCR.

Targets set forth in the original WFP were prepared while considering development trends, ecological issues, environmental policies, customer demands, and expendable resources. Accomplishments were regularly monitored, validated and evaluated not only to ensure a timely attainment of targets but to guarantee as well their accuracy as inputs to statistics that could be used for informed decision-making. As government agencies adjusted to restrictions, health and safety protocols became a prime consideration as well, to simultaneously protect the agency, its workers, and its clients and visitors.



Figure 15. Advanced Statistic Orientation Conducted in Celebration of the 35th National Statistical Month



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REGIONAL ICT UNIT

The Regional Information and Communication Technology Unit (RICTU) of DENR-National Capital Region handles the overall software and hardware support and maintenance of the region.

RICTU manages and monitors multiple critical systems. Each system serves a specific purpose in enhancing operational efficiency:

- Enhanced Electronic New Government Accounting System (eNGAS): Used for government accounting and financial transactions, ensuring accurate and efficient management of financial records.
- Land Administration Management System (LAMS): Supports land administration tasks, such as land registration and documentation.
- Online Leave Management System: Streamlines leave application and approval processes for employees.
- Manila Bay Improvement and Legal Information System (MABILIS): Likely used to manage legal and improvement-related data for Manila Bay projects.
- Legal Case Status Information System: Tracks the status of ongoing legal cases, improving transparency and record-keeping.
- QR Code and Certificate Generator: Simplifies the creation of QR codes and certificates, possibly for documentation or verification purposes.
- Asset Management Information System (AMIS): Keeps track of the organization's assets to ensure accountability and efficient use.
- IT Helpdesk: Provides IT support for resolving technical issues.
- DENR-NCR Employees Association System: Likely supports employee-related association activities.
- Payroll System: Manages employee salary and compensation processing.

Development of New Systems

DENR-NCR Integrated Information System (DNIIS):

New Features:

- Integration of the New ODTs Version 5, a document tracking system used by all divisions.
- Procurement Tracking System (PTS) module, which includes functionalities such as generating procurement documents (e.g., Purchase Requests, Abstract of Quotations, and Notices).
- Certificate of Transshipment System (CTS): Simplifies the online issuance of transshipment certificates.
- Tree Cutting Permitting System: Facilitates the online issuance of permits for tree cutting.



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Internet and Network Infrastructure

Internet Connectivity:

- Internet services provided by Converge are actively monitored and maintained for performance.
- Collaboration with the Department of Information and Communication Technology (DICT) under the iGov project ensures access to free and fast internet.
- Network Infrastructure Maintenance: Network infrastructure across the region is regularly observed and maintained to support efficient connectivity.

Monitoring and Maintenance of Intranet Systems

RICTU oversees several intranet systems essential for internal communication and operations:

1. GSM-Based PABX: Telecommunications system for internal and external communication.
2. MBSCMO Survey Team True NAS & Regional FreeNAS: Systems for secure and reliable storage of survey data and other files.
3. Land Administration Management System: Continues to support land-related administrative functions.
4. eNGAS: Ensures consistent accounting operations.
5. Active Directory / Domain Controller: Centralized directory service for managing user access and network resources.
6. Queuing System: Improves service efficiency by managing queues.

The RICTU of DENR-NCR has demonstrated a proactive approach to adapting to technological advancements. By developing and maintaining sophisticated systems like DNIIS and CTS, the unit enhances operational efficiency, reduces paper usage, and modernizes processes. The commitment to improved internet connectivity and robust network infrastructure further underscores its dedication to ensuring reliable IT services.



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REGIONAL STRATEGIC COMMUNICATION AND INITIATIVE GROUP (RSCIG)

EXECUTIVE SUMMARY

The Strategic Communication and Initiatives Group (RSCIG) of DENR National Capital Region serves as the communication arm of the Office of the Regional Director. As part of its main function to provide both extensive and intensive conveyance of the priority programs and activities of the Office, identified main programs, activities, and projects of the RSCIG for CY 2024 include the following:

1. Formulation of the Annual Integrated IEC Action Plan
2. Developing, producing, and disseminating print, broadcast, and audio-visual materials
3. Developing and finalizing speeches and messages
4. Conduct IEC meetings, press conference, and dialogues relevant to the promotion of regional activities
5. Conduct environmental lectures, *Dalaw Turo*, environmental theater, and other forms of folk media.
6. Managing official social media accounts and websites; and
7. Partnership with media, NGOs, LGUs, etc. on sustainable development

Furthermore, the Annual Integrated IEC Action Plan was successfully produced during the first quarter of the year wherein all the Information, Education, and Communication (IEC) materials intended per priority programs of the DENR NCR for CY 2024 were strategized and mapped. All underlying activities per sub-categories were in accordance with the approved Work and Financial Plan (WFP) of RSCIG for CY 2024.

As for the development, production, and dissemination of print, broadcast, and audio-visual materials, long and short audio-visual presentations, and tailored DENR shows were produced, posted, and/or aired on social media and public areas. Promotional materials and digital designs were also produced for utilization on the environmental events streamlined by the Central Office and the Regional Office itself.

In addition, a series of IEC meetings/orientations were conducted, as well as the consecutive guesting of DENR NCR officials on TV/radio shows were facilitated per month to promote the regional activities.

Moreover, one of the main objectives of the RSCIG is to impart environmental education to the communities in Metro Manila as part of promoting the priority programs of DENR. Hence, a series of *Dalaw Turo* and experiential learning activities known as *Lakbay Manila Bay* were facilitated to provide environmental lectures and nature experiences to the target partners and participants.



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DENR NCR has also been managing its official accounts across several social media platforms to further reach out to the public. With that, the RSCIG continuously manages its Facebook, Instagram, Twitter, YouTube, and regional DENR website.

With all the programs and activities of the regional offices, aided by its several platforms to connect to the communities and stakeholders, a series of partnerships with media, NGOs, and LGUs on sustainable development were built and officiated through the signing of a memorandum of agreement with corresponding collaborated activities with the DENR NCR and the third parties. This also includes managing stakeholder relations with various sectors including senior citizens, PWDs, and NGOs.

Lastly, part of the main programs and activities of the RSCIG for CY 2024 is managing environmental events proclaimed through and set in order by the DENR Central Office and other affiliated offices.

As of December 2024, the physical performance of RSCIG in line with the set programs/activities in the WFP were accomplished. Hence, 100% or Php 1,252,000 of the total allocated budget of RSCIG amounting to Php 1,252,000 under the Maintenance and Other Operating Expenses (MOOE) is obligated, while 71% is heretofore allocated for disbursement as of December 30, 2024.

OPERATING AND FINANCIAL HIGHLIGHTS OF ACCOMPLISHMENTS

- Narrative account of Program/Project Outputs and Outcomes
- Factors that facilitated/hindered the attainment of targets
- Significant progress of Milestones

Taking into consideration all the programs/projects based on the WFP CY 2024, the following are the outcomes, challenges, and significant progress, to wit:

1. Formulation of Annual Integrated IEC Action Plan

The Annual Integrated IEC Action Plan incorporating all the IEC activities per priority programs was signed on 27 February 2024 by the In-charge, Office of the Regional Executive Director then, and submitted to the DENR Central Office SCIS on 28 February 2024. It was challenging because the group encountered some issues and concerns during its development, including the initial provision of unclear communication objectives, identifying measurement and evaluation, timing and scheduling conflicts, internal coordination, sometimes, within DENR-NCR; and the assurance of sustainability of the IEC campaigns. These challenges underscore the complexity of crafting an effective and comprehensive IEC action plan for environmental communication.



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2. Developing, Producing and Disseminating Print, Broadcast, and Audio-Visual

Identified print, broadcast, and audio-visual materials for CY 2024 were considered to be in line with the mainstream and trending needs of the public, which include the following:

2.1 Audio Visual Presentation (AVP)

The total target AVPs (Long Videos [5 and above minutes] and Short Videos [0.30 seconds to 4.59 minutes]) for CY 2024 is 46 wherein accomplished AVPS as of December 2024 is 83. Overall, the RSCIG exceeded the targets as most of the AVPs are either requested or instructed by the internal and/or external clients, and as needed in regional events/activities such as the Salamat, Mabuhay materials, DENR NCR Program presentations, GTI 3.0 materials, RMC presentations, and ICC materials among others.



Figures 16-17. Long AVPs



Figures 18-19. Reels



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2.2 DENR Show Produced and Aired on Social Media or Public Area

There are three (3) identified DENR NCR shows being produced by the RSCIG which include the following:



PANOORIN: Ang pinakabagong episode ng Natural Connections patungkol sa Pasig River Coordinating and Management Office - PRCMO...

2.2.1 Natural Connections

The Natural Connections (NC) is an interview show with the officials and technical resource speakers from the DENR NCR and its affiliated offices to discuss the priority programs, and other projects of the agency in NCR. Out of four (4) target Natural Connections, there were five (5) recorded accomplished NC in total.

A common challenge encountered during the NC shoots is the conflict of schedule with the resource speakers which can be resolved by the RSCIG. No major conflicts were recorded in the conduct of

this target for CY 2024.

2.2.2 News Reports

News Reports produced by the RSCIG are commonly the newsworthy stories/activities of the office for this year which include the celebration of World Wetlands Day, Month of the Ocean, Environment Month, International Youth Day, and the International Coastal Cleanup (ICC). Out of the five (5) target news reports, the RSCIG successfully produces all the expected quantity of outputs with only minor internal challenges during production.



Figure 21. News Report on ICC



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2.2.3 Padyak Manila Bay

The Padyak Manila Bay is conceptualized based on a bike vlog wherein it generally features conservation sites, and other environment-related establishments, spaces, and/or activities within NCR. There are two (2) targeted Padyak Manila Bay videos which are all accomplished by the RSCIG and featured the Tinajeros Linear Park, and Brgy. Tagalag Fishing Village in Navotas.



PANOORIN: Ang pinakabagong episode ng Padyak Manila Bay ng DENR National Capital Region kaugnay sa Linear Park Enhancement Project sa...

Figure 22. PMB in Tinajeros Linear Park

2.3 Print Materials



Figure 23. GAD

2.3.1 Flyers

Flyers are typically designed for quick grab and to convey essential information and are generally printed on a single sheet of paper. As for this printed material, for CY 2024 there is one (1) accomplished flyer content layout and produced two hundred (200) flyers about Gender and Development.



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2.3.2 Brochures

Brochures generally have multiple folds and are more comprehensive than flyers, which are often used to provide more detailed information. This year, the RSCIG was able to layout one (1) and produce thirty-five (35) brochures, which is the office's corporate brochure containing the vision, mission, mandate, and priority programs.



Figure 24. DENR NCR Corporate Brochure

2.3.2 Braille

A Braille book is a book designed for visually impaired readers, featuring text printed in raised Braille dots that can be read by touch. These books allow readers to access literature, educational materials, and other written content independently. As for the target braille book, RSCIG was able to accomplish, layout and produce two (2) copies. One of the copies was given to the SDO Marikina last 14 October 2024.



Figure 25. Turnover of Braille Book



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2.4 Promotional Materials

2.4.1 Tarpaulin

Tarpaulins were used as IEC materials in raising awareness about the relevant environmental events. For CY 2024, the target was set at 12 tarpaulins. However, a total of 16 tarpaulins and 67 layouts were produced, primarily for environmental events, including but not limited to the following: Zero Waste Month, World Wetlands Day, Stakeholders and Partners Forum, GAD Month, World Water Day, World Wildlife Day, Community Pan Tree, Earth Month, Month of the Ocean, Sportfest, World Environment Month, Arbor Day, National Disaster Resilience Month, Gawad Taga-Ilog 4.0, World Migratory Bird Day, Organizational Chart 2024, Environment Month, National Disaster Resilience Month, 2024 Census of Population, National Disability Rights Week, DENR NCR CapaciTEAM Building, Buwan ng Wika, ASEAN Day, International Youth Day, Tamawar Month, Elderly Filipino Week, World Habitat Day, 35th National Statistics Month, International Day of Climate Action, and World Cities Day.



Figures 26-27. Environmental Events Tarpaulin



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2.4.1 Shirts

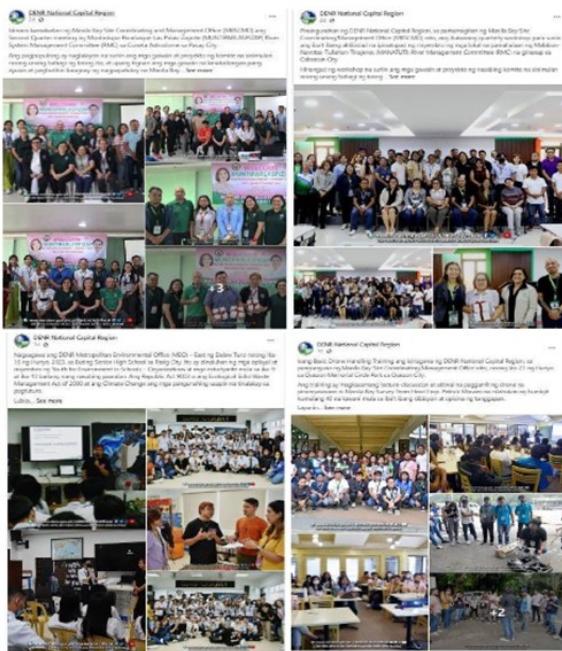
A promotional shirt is a wearable marketing tool designed to promote a brand, organization, event, or cause. RSCIG was able to layout and produce 250 pcs of shirts for IEC distribution.



Figures 28-29. Shirt layout produced

2.5 Digital Designs Produced

2.5.1 Photo Releases



Figures 30-33. Photo Releases Sample

These are the daily postings and content on the social media platforms of the DENR NCR. Most of these are the activities and newsworthy programs and operations of each division under DENR NCR. There is a target of 211 photo releases to be posted for CY 2024 wherein 340 were accomplished by RSCIG, Metropolitan Environmental Offices (MEO), and respective RLinks as of December 30, 2024.

A common challenge encountered in producing photo releases is the generation of unique potential stories happening per division as the write-ups commonly submitted to RSCIG are routine activities and projects of the offices. Therefore, the RSCIG systematized the target photo releases of IOs on each MEO in which an additional target is set for a special story/writeup.



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2.5.2 Social Media Cards/Infographics

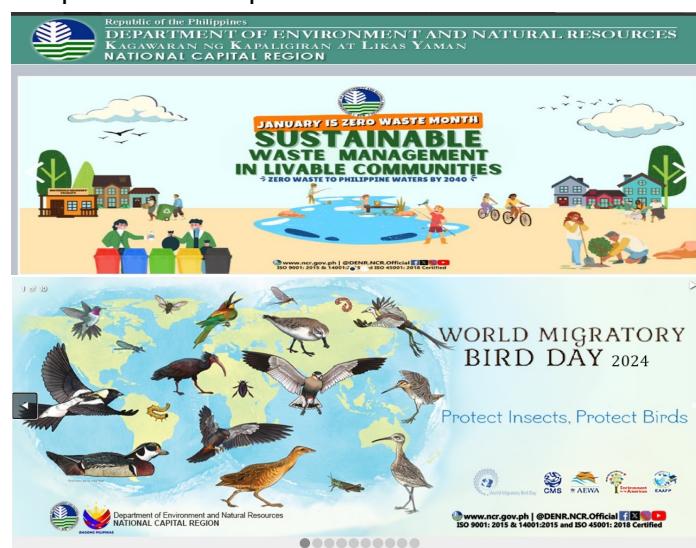
Some media cards produced were used during major events, e.g., the Stakeholders and Partners Forum, the GTI 4.0 Awarding Ceremony, and the MOA Signing. Other social media cards were produced in compliance with SCIS' requests/directives to participate in relevant environmental and special events. Out of the 85 target social media cards stated on the WFP, 151 were produced, as of December.



Figures 34-35. Sample Produced Social Media Cards for 2024

2.5.3 Website Banner Design

SCIS emailed and encouraged all regions to participate in raising awareness brought about by the relevant environmental events by producing IEC materials including but not limited to website banner design. Out of thirteen (13) target website banner designs to be layouts, there are recorded 46 layouts produced and posted for CY 2024.



Figures 36-37. Zero Waste Month and World Migratory Website Banner



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2.5.4 LED Wall Design/Backdrops



Figure 38. Philippine Arbor Day LED Wall Design

Target LED wall design/backdrops especially for the promotion of environmental events is thirteen (13) wherein the total produced wall designs/backdrops are 76. These were used during Zero Waste Month, World Wetlands Day, World Water Day, World Wildlife Day, World Migratory Bird Day, Tree Hugger, Women's Month, IDBD, World Oceans Day, Philippine Arbor Day, *Buwan ng Wikang Pambansa*, International Youth Day, and National Disaster Resilience Month, among others.

3. Developing and Finalizing Speeches and Messages

As the communication arm of the Office of the Regional Director, the development of speeches and messages are primary tasks of the RSCIG, to wit:

3.1 Press Release

These are narratives of the event or activity of the region and contain the essential details for reference of the media partners. This year, there were 15 press releases submitted out of the thirteen (13) targets which majority are from newsworthy stories related to regional events/activities.

<p>Department of Environment and Natural Resources NATIONAL CAPITAL REGION National Ecology Center, East Avenue, Diliman, Quezon City</p>	<p>PRESS RELEASE Regional Strategic Communication and Initiatives Group E-mail: denr_ncr_rpao@yahoo.com</p>
<p><i>Press Release</i></p> <p>DENR-NCR is steadfast in Disaster Preparedness and Response amidst the onslaught of Typhoon Carina in Metro Manila</p> <p>The DENR National Capital Region's commitment to disaster preparedness and response, especially during events like Typhoon Carina and the enhanced Southwest Monsoon (<i>Habagat</i>), is crucial for ensuring public safety and minimizing environmental damage in Metro Manila.</p>	
<p>Department of Environment and Natural Resources NATIONAL CAPITAL REGION National Ecology Center, East Avenue, Diliman, Quezon City</p>	<p>PRESS RELEASE Regional Strategic Communication and Initiatives Group E-mail: denr_ncr_rpao@yahoo.com</p>
<p><i>Press Release</i></p> <p>DENR-NCR steps up efforts to oil slick off Bataan Coast</p> <p>The Department of Environment and Natural Resources – National Capital Region (DENR-NCR) activated efforts to assist other agencies in monitoring the oil spill from the sunken M/T Terra Nova off the coast of Limay, Bataan in Metro Manila.</p>	

Figures 39-40. Headlines of some of the submitted press releases



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3.2 Speeches, Messages, and Writeups

Drafted and submitted speeches as requested/instructed by the internal and/or external clients as needed in regional events/ activities. Hence, a total of 44 speeches, messages, and/or writeups out of the 17 targets for this year were provided by RSCIG.

4. Conduct IEC Meetings, Press Conference and Dialogues Relevant to the Promotion of the Regional Activities

4.1 IEC Meetings/Orientations

Due to the nature of events and activities initiated by the region, IEC meetings/orientations with other key officials, staff, Information Officers, and RLinks are necessary aside from the set quarterly meetings solely for the IOs per MEOs. Therefore, a total of four (4) meetings were conducted out of the four (4) targets as of December 2024.



Figure 41. 1st Quarter IEC Meeting 2024

4.2 Guesting of DENR NCR Officials in TV/Radio shows

Media guesting's were facilitated to further promote the activities and events of the region through broadcast and print media for a wider coverage to the public. Hence, there were 42 media guesting conducted with broadcast media facilitated by RSCIG out of the 12 set for this year wherein some are requests of media partners to interview DENR NCR officials regarding pressing matters, aside from the interviews intended to promote large-scale environmental events such as ICC 2024.



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Figures 42-43. Live Media Guestings/Interviews

5. Conducting Environmental Lectures, Dalaw Turo, Environmental Theater, and Other Forms of Folk Media

The following IEC activities are considered interpersonal communications to further reach out to the intended audiences and are advantageous in building connections, effective collaborations, and deeper influence and persuasion to the target audiences and stakeholders, through the following identified activities to wit:

5.1 Dalaw Turo

Dalaw Turo (DT) are lecture series with target partners, audiences, and stakeholders that mainly focus on the topics of various programs of the DENR NCR, including the environmental advocacies of the government. Common topics discussed were the State of Manila Bay, Republic Act 9003, and the National Greening Program among others. Other DTs conducted were in response to requests, directives, and partnership development.

Considering this, 7 *Dalaw Turo* were targeted for CY 2024 wherein 7 were successfully facilitated by the RSCIG in partnership with MEOs, CDD, and other related divisions.



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Figures 44-45. Dalaw Turo Activities

5.2 Experiential Learning Activity (*Lakbay Manila Bay*)

The DENR NCR through its RSCIG, formalized experiential learning activities for CY 2024 and was tagged as *Lakbay Manila Bay* where it aims to provide hands-on experiences on environment-related activities in NCR. Hence, all the four (4) targets for this year were accomplished.



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Figures 46-47. LMB Activities in National Museum and La Mesa Eco Park

6. Managing Official Social Media Accounts and Website

The DENR NCR has official social media accounts on specified platforms including Facebook, Instagram, Twitter, and YouTube. Facebook served as the main social media platform of the office where updated photo releases are being posted. Instagram and Twitter are supporting platforms to further promote and spread the posted social media cards and releases. Lastly, YouTube is being used for the produced shows and AVPs of RSCIG. Aside from social media platforms, RSCIG is also managing content on the regional DENR website where press releases are being posted.

Minimal difficulties were observed in managing social media accounts including updating timely content and ensuring it stays relevant; managing negative or critical feedback on social media platforms, particularly concerning controversial environmental issues or policies, can be difficult; platform algorithm changes; different audience expectations across platforms; website downtime and technical glitches; monitoring and analytics; and the public expectations and engagement. By recognizing and addressing these problems, DENR-NCR can improve its digital communication strategy, enhance engagement with the public, and better promote its environmental initiatives.



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7. Partnership with Media, NGOs, LGUs, etc., on Sustainable Development

To facilitate the priority programs and activities of the regional office, DENR NCR must ensure partnerships with target stakeholders, media, and such for more sustainable collaborations on the implementation of advocacies.

7.1 Stakeholders engagement/networking

To guarantee the building of networks for possible partnership, one of the strategic approaches of the office is to formalize a memorandum of agreement with potential stakeholders in the conduct of project-related matters to the priority programs of the DENR.

For CY 2024, a total of 12 MOA signing ceremonies were conducted out of the 6 targets. The RSCIG exceeded the target for this P/A/P with the assistance of CDD PFMS, MBSCMO, and other related divisions.

8. Managing Environmental Events Proclaimed Through

The RSCIG was able to organize/participate in most if not all, environmental and special events proclaimed through executive issuances. These include Zero Waste Month, World Wetlands Day, World Water Day, World Wildlife Day, Women's Month, World Sea Grass Day, 11th Anniversary of the Declaration of LPPWP as Ecotourism Site, International Day of Forest, Earth Hour, Earth Day, Month of the Ocean, International Day for Biological Diversity, World Migratory Bird Day, Philippine Environment Month, World Environment Day, World Oceans Day, Coral Triangle Day, World Sea Turtle Day, Philippine Arbor Day, National Disaster Resilience Month, International Day for the Conservation of Mangrove Forest Ecosystem, World Ranger Day, Buwan ng Wika, ASEAN, International Youth Day, PCS Anniversary, ICC, CAF, World Environmental Health Day, 35TH National Statistics Month, World Migratory Bird Day, Lead Poisoning Prevention Week, Tamaraw Month, International Day of Climate Action, Circular Actions for Climate Hope and Coral Bleaching Awareness Month, among others.



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A total of 12 targets for environmental events have been set for CY 2024 wherein 55 were organized/participated as of December 30, 2024.

Figures 48-51. Environmental Events participated by DENR NCR

9. Managing Stakeholders' Relations

Lastly, the RSCIG successfully conducted two (2) learning activities for PWD for stakeholders' relations wherein an EcoCamp was conducted in celebration of IYD 2024, and a seminar for Senior Citizens in Brgy. Holy Spirit.



Figures 52-53. EcoCamp and SC Seminar conducted in 2024



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III. REGIONAL MANAGEMENT DISCUSSION AND ANALYSIS

- Result/Outcomes. Assessment of Stakeholders' responses to the programs implemented: participation, compliance, adoption, enforcement, utilization of outputs provided
- Policy and Implementation Issues and Actions Taken

Based on the highlights and significant progress on the approved P/A/Ps of RSCIG for CY 2024, actual accomplishments exceeded the target set on the WFP.

The formulated Annual Integrated IEC Action Plan was successfully implemented based on its corresponding programs of the regional office. However, the challenges encountered during its development underscored the complexity of crafting an effective and comprehensive IEC action plan for environmental communication. To address them, it is important to have strong leadership, efficient collaboration, adequate resources, and continuous feedback mechanisms. Moreover, the developed, produced, and disseminated print, broadcast, and audio-visual materials were in line with the set guidelines and requirements of the clients. Some of the partners who were provided with the materials requested permission for them to use it for distribution within their organization or institutions. These materials are being distributed to the public for free to further reach a wider scope of the communities in Metro Manila. However, limitations on the production of tarpaulins especially during the conduct of ICC were observed as this could aid in lessening solid waste disposals. As for online postings such as photo releases and social media cards, the Region continues to facilitate and enhance its brand online. Due to the numerous internet postings made by all the DENR offices (CO, ROs, Bureaus, and others), including their stories (photo releases), audio-visuals, infographics, and cards, which the public is likely aware of, the NCR continuously create its own online identity.

Also, the Region is conducting several activities that could be potential stories thus, the RSCIG continuously enforcing its "RLinks" focal system with Metropolitan Environmental Offices to properly accommodate all the stories and concerns per MEOs and divisions.

Additionally, developed and finalized messages were properly distributed and/or utilized as needed by the Officials during the events. Press releases are being distributed through online and printed materials as needed by the media partners to ensure that they capture vital information regarding the promoted events and/or programs of the office.



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Aside from the aforementioned targets, the conduct of IEC meetings was strictly complied with to ensure that all involved divisions, offices, and/or stakeholders were leveled off on the events/program facilitation.

Media partners on media guesting's are also eager to coordinate with RSCIG for future promotions and/or events as well.

As for the conduct of environmental lectures, stakeholders and partners are looking forward to more similar activities in the coming years as they aspire to provide opportunities to other members or constituents of their organization/offices to attend our provided environmental lectures. Nonetheless, while the stakeholder's manifest affirmation to join these lectures, RSCIG shall ensure that the attendees are capturing the information and that the learning environment is conducive. Hence, strict implementation of the pre-test and post-test as well as the evaluation form must be observed to properly gauge the room for improvement in this type of activity.

In addition to the activities set for RSCIG, management of the social media accounts and website is ongoing with minimal challenges observed. Thus, there is a designated RSCIG personnel to monitor the said platforms wherein the Head of the RSCIG functions as the editor-in-chief.

Further, the enhancement of partnerships with media, NGOs, and other stakeholders on sustainable development is being secured by incorporating sustainability and ownership of the program initiatives, inputs, and outcomes. Current partners are involved in the conduct of several IEC activities facilitated by the office.

In terms of managing environmental events proclaimed through executive issuances, most of the environmental events were organized and/or participated with rigid and consistent coordination from concerned offices and groups.

Lastly, managing stakeholders' relations with senior citizens/PWD and NGOs succeeded in partnership with the Senior/PWD/Youth Desk of DENR NCR and MEOs. A series of collaborative activities of these offices were conducted within NCR, especially within Barangay or LGU who manifested affirmation for more future partnership with them.



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LEGAL SERVICES

INTRODUCTORY MESSAGE OF THE HEAD OF THE OFFICE

This report highlights the Legal Division's key achievements, challenges, and actions taken to address the same. The Division is thankful to the Management for its continued support which has been instrumental in the Division's progress.

The Legal Division remains committed to providing sound legal guidance and contributing to the organization's success in the coming year.

EXECUTIVE SUMMARY

This Region, through this Division, was able to expedite the resolution of Environment and Natural Resources (ENR) cases which, as of November 2024, is fifty-seven (57) cases, wherein six (6) of which are Forestry cases. Further, seven (7) admin cases were likewise resolved.

Notably, the Division has exceeded the annual targets of reviewing Memoranda of Agreement and Understanding and rendering Legal Opinion, among others. This only shows that the Division has selflessly extended aid and assistance to other divisions to attain the regional target.

Consequently, the financial performance of this Division is at the utilization rate of eighty-nine (89%) as of 30 November 2024. This is exclusive of mandatory expenses that were charged annually in every division's budget.

HIGHLIGHTS OF ACCOMPLISHMENTS

A. Support to Operations (STO)

Zero Backlog Case

Despite the volume of assistance given to other divisions to achieve their respective targets, the Legal Division, under the Management's initiative, through Special Order No. 2024-525 has successfully achieved zero backlog of cases prior to the conduct of the annual inventory in November 2024. Zero backlog means those cases ripe for or submitted for resolution were successfully resolved/accomplished.



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Alternative Dispute Resolution (ADR) Lecture Series and Mass ADR

The Legal Division, headed by the Chief, who is the ADR Focal Person for the NCR, conducted a lecture series on September 17, 23, and October 01, 2024, attended by the ADR Officers (ADROs) as well as Land Investigation Officers (LIOs) in the DENR-NCR.

These lectures were conducted to give the ADROs and LIOs a refresher training on the ADR Monitoring and Results System (ADR-MRS), as well as to capacitate them on ADR procedures, strategies, and techniques.

On October 7, 2024, the Legal Division together with the pool of ADROs of the DENR-NCR conducted a mass ADR of the parties with pending cases before this Office.

In the said mass ADR, all of the ADROs were able to apply the skills, strategies, and techniques acquired during the ADR Lecture series.

As a result of the mass ADR, five (5) cases were successfully settled through a Compromise Agreement/Amicable Settlement.

Acted as Resource Persons during Lectures, Trainings, ENRA, and other activities

Lawyers from the Legal Division are always accepting invitations to be resource person/speakers for various lectures, trainings, IEC, and other activities, in support of the activities of the other Divisions, the Management, and this Organization.

B. Other Notable Accomplishments

Issuance of Regional Memorandum Order (RMO): Guidelines in the Docketing of Cases Under Preliminary Investigation Stage (PES) and Other Undocketed Cases

The Legal Division, with the support and approval of the Management, was able to issue the subject Regional Memorandum Order (RMO) which provides the guidelines and the procedure in the docketing of cases that are in the Preliminary Evaluation Stage (PES) as well as the undocketed cases pending before this Office.

Through the issuance of this RMO, Protests/Petitions filed with the Legal Division will be efficiently and effectively filtered and monitored, so as to facilitate the procedure in resolving land claims and conflicts cases.



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Issuance of Regional Memorandum Circular (RMC): Strengthening of the Organizational Structure of Metropolitan Environmental Offices (MEOs)

In compliance with the instruction of the OIC Regional Executive Director, the Legal Division, in coordination with other Divisions and Offices, formulated this subject RMC to streamline and strengthen the organizational structure of MEOs to streamline and strengthen the organizational structure of MEOs in order to ensure the enforcement of environment and natural resources (ENR) laws thus bringing the government closer to the people.

Assistance to the Office of the Solicitor General (OSG) in Reversion Cases

A part of the best practices of the Legal Division, it actively assists the OSG in reversion cases by attending meetings, case discussions, and by providing them with the information needed for each case, in the interest of the government and the public.

WAY FORWARD

The Division aims to continue to exceed its allotted targets, including providing assistance to other Divisions and Government Agencies and performing its duties with utmost diligence and competence to the public and the Government.

The Legal Division will continue the implementation of zero backlog which was set by the Management to be achieved in the first quarter of 2025 with regard to cases found to be ripe for resolution after inventory in November 2024.



WATER RESOURCE UTILIZATION

In CY 2024, this office successfully conducted an inventory of 255 water users within NCR. Among these, only 30 water users possess permits issued by the National Water Resources Board (NWRB), highlighting a significant compliance gap as 225 water users operate without the necessary permits. Of the 255 water users listed, 131 are classified as operational and are actively utilized as water sources mostly for domestic use. This data underscores the need for increased regulatory oversight and proactive engagement with unpermitted water users to ensure compliance with the Water Code of the Philippines.



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Table 01. Inventory of Water Users in NCR

YEAR	INVENTORY OF WATER USERS			IDENTIFICATION OF WATER SOURCES
	PERMITTEES	NON-PERMITTEES	TOTAL	
2016	61	130	191	95
2017	63	142	205	113
2018	73	130	203	112
2019	10	214	224	188
2020	19	20	39	30
2021	233	53	286	143
2022	185	90	275	154
2023	60	190	250	127
2024	30	225	255	131
TOTAL	734	1194	1928	1093

Since the establishment of the Water Resource Utilization in 2016, the section has documented a cumulative total of 1,928 water users. Of this number, 734 water users have secured the requisite NWRB permits, while a larger portion—1,194 users—operate without authorization. Furthermore, of the total 1,928 water users, 1,093 are operational and actively function as water sources. This data highlights the vital role of WRUS in monitoring and managing the region's water resources to ensure sustainable utilization and equitable distribution. Moving forward, strengthening permitting processes, raising awareness among stakeholders, and enforcing regulations will be critical in addressing these issues and promoting sustainable water resource use.



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OTHER SIGNIFICANT ACCOMPLISHMENTS

Inspection of Metro Megamix for PD 1067 Violation

Conducted an ocular inspection of Metro Megamix on July 29, 2024 to investigate potential violations of Presidential Decree No. 1067, also known as the Water Code of the Philippines. The activity was carried out in coordination with the Monitoring and Enforcement Office-North (MEO-North) and the Environmental Management Bureau-National Capital Region (EMB-NCR). A detailed inspection report was prepared and subsequently submitted to the Office of the Regional Executive Director for further action.

Coordinative Meeting on Flood Control and Water-Related Projects

Organized a coordinative meeting on October 3, 2024 with key agencies, including the Department of Public Works and Highways-National Capital Region (DPWH-NCR), EMB-NCR, Manila Bay Site Coordinating and Management Office (MBSCMO), Pasig River Coordinating and Management Office (PRCMO), and the Surveys and Mapping Division (SMD). Discussions focused on the monitoring of flood control and other water-related projects, ensuring that environmental concerns are integrated into project planning and implementation. A series of follow-up meetings will be conducted, expanding participation to include the Metropolitan Manila Development Authority (MMDA), Department of the Interior and Local Government (DILG), and Department of Human Settlements and Urban Development (DSHUD).

Internal Coordination Meeting with DENR-NCR

Convened an internal coordination meeting on November 11, 2024 with concerned offices within DENR-NCR, including MBSCMO, PRCMO, EMB-NCR, and SMD, to discuss matters related to the recently held meeting with DPWH-NCR and other involved national government agencies. The discussion aimed to streamline coordination efforts and align priorities for addressing water-related issues in the region.



Figure 54. Spot check of Water Utilities in Government Agencies in NCR



ENHANCED NATIONAL GREENING PROGRAM

The Department of Environment and Natural Resources (DENR) - National Capital Region (NCR) has been actively contributing to the implementation of the Enhanced National Greening Program (eNGP). This nationwide initiative, mandated by Executive Order No. 193, Series of 2015, aims to restore degraded forests and promote sustainable development.

One of the priority programs of the Department of Environment and Natural Resources (DENR) is the implementation of the Executive Order no. 26 series of 2011 otherwise known as the National Greening Program. With the aim to pursue sustainable development for poverty reduction, food security, biodiversity conservation, and climate change mitigation and adaptation, E.O. 26 catalyzed the planting of 1.5 billion trees to cover 1.5 million hectares within 6 years from 2011 to 2016. Target areas of the executive order include those of Forestlands, Mangroves and Protected Areas, Ancestral Domains, Civil and Military Reservations, Urban Areas under the Greening Plan of the LGUs, Inactive and Abandoned Mine Sites, and Other Suitable Lands. By virtue of the declaration of E.O. 193 series of 2015, the National Greening Program has included the restoration of the remaining unproductive, denuded and degraded forest lands therefore expanding the timeframe to 2028 and emphasizing the participation of the private sector in the implementation. Hence the name, Enhanced National Greening Program.



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As it is most of the land cover in the National Capital Region (NCR), the DENR NCR through the Conservation and Development Division - Production Forest Management Section (CDD-PFMS) makes it a priority to provide technical assistance to clients, conduct tree growing activities, and ensure maintenance and protection of Urban Areas under the Greening Plan of the LGUs and other suitable lands in NCR.

Twelve (12) years since the original declaration of the executive order, the DENR NCR, together with a variety of partnerships established with different sectors of society and stakeholders, was able to establish, grow, and maintain planting areas covering a total of 1,577.256 hectares situated on urban parks, center islands, mini forests, and schools among others with a huge portion in La Mesa Watershed Reservation.

Other established planting sites from FY 2011 to 2019 are being maintained and replanted by DENR NCR in close collaboration with its partner-implementers such as ABS-CBN Lingkod Kapamilya Foundation Inc. – Bantay Kalikasan, Philippine National Police, Armed Forces of the Philippines, Local Government Units, Schools, NGAs and NGOs. Growth performance and survival of the planted seedlings were also assessed and evaluated. To date, a total of 1,483.271 ha of NGP Sites are now graduated. Over the past years, the watershed was dominated by exotic species that have allelopathic effects in the ecosystem. This indigenization is done to ensure that the next generation of trees that will dominate the watershed are native and indigenous tree species that have ecological importance.



Figure 55. Validation of some NGP Site together with Bantay Kalikasan and MWSS



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Replanting of Existing NGP Sites

The PFMS has prioritized the replanting of existing National Greening Program (NGP) sites, especially those affected by natural calamities and climate change. In collaboration with various stakeholders, including government agencies, private sector organizations, and civil society groups, the PFMS has undertaken replanting activities to ensure the sustainability of these sites.

To mitigate the impact of climate change and promote biodiversity, the PFMS has focused on planting native and indigenous tree species in the La Mesa Watershed and other critical areas. These species are well-adapted to local conditions and contribute to the ecological balance of the region.

By actively engaging with stakeholders and implementing effective replanting strategies, the PFMS aims to enhance the ecological integrity of the region and contribute to a greener and more resilient future.

Seedling Production and Distribution

The PFMS operates and maintains three nurseries: the Mechanized and Modernized Forest Nursery (MMFN), the La Mesa Watershed Nursery, and the North Avenue Production Nursery. These nurseries are crucial for producing high-quality planting materials and serving as a depository for seedlings obtained from tree cutting permits issued within Metro Manila.

In 2024, the PFMS produced a total of 367,559 seedlings. These seedlings were distributed to a diverse range of stakeholders, including government agencies, local government units, private individuals and groups, NGOs, academic institutions, and residents. The distribution aimed to support various initiatives such as food security, urban greening, beautification, and rehabilitation of green spaces within and outside the National Capital Region.

Table 2. Total Seedling Production per commodity per nursery

Nursery	Forest tree / Fruit bearing	Agricultural crops	Ornamentals	TOTAL
MMFN	146,995	128,458	27,597	303,050
Clonal Nursery	3,248	-	3,181	6,429
Other Nurseries	2,650	-	55,430	58,080
Total	152,893	128,458	86,208	367,559

Table 3. Total Seedling Disposition from Production per commodity per nursery

Nursery	Forest tree / Fruit bearing	Agricultural crops	Ornamentals	TOTAL
MMFN	109,093	125,239	45,939	280,271
Clonal Nursery	670	-	4,510	5,180
Other Nurseries	2,030	-	250,069	252,099
Total	111,793	125,239	300,518	537,550

To ensure compliance with DENR Memorandum Order (DMO) No. 2012-02, the PFMS established a Seedling Replacement Audit Committee (SRAC) through Special Order No. 2020-264. The SRAC is responsible for auditing all incoming and outgoing replacement seedlings.

In 2024, the SRAC processed a total of 473 compliance cases, receiving 283,699 replacement seedlings. Of these, 206,724 seedlings were utilized for various purposes, including:

- NGP Sites: Replanting degraded areas and establishing new forest cover.
- Client Initiatives: Supporting the reforestation and greening projects of clients and partners.
- Community Planting Programs: Distributing seedlings to communities for planting in public spaces and private properties.



Figure 56. Seedling Replacement

By effectively managing the replacement seedling process, the SRAC contributes to the overall goal of environmental conservation and sustainable development.

Enhancement, Development, and Monitoring of Parks

The PFMS recognizes the significant ecological impact of invasive species on urban parks. To address this issue, the DENR NCR has embarked on a major initiative to indigenize urban parks and restore native biodiversity.

Since 2018, the PFMS has successfully indigenized 40 urban parks in Metro Manila. These parks are now being monitored regularly to assess the health of native plant species and to identify any emerging threats, such as invasive species or human activities.

The PFMS collaborates closely with local government units, homeowners associations, and other stakeholders to ensure the long-term maintenance and protection of these parks. By promoting the use of native plant species and implementing effective management practices, the PFMS aims to create resilient and sustainable urban ecosystems.



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Green Space Baselining

The PFMS has initiated a comprehensive assessment of green spaces in Metro Manila, utilizing the 2020 Land Cover Spatial Dataset from the National Mapping and Resource Information Authority (NAMRIA). The primary objective of this assessment is to identify and validate existing green spaces across all 16 cities and one municipality.

The data collected from this assessment will be instrumental in formulating policies and programs that promote urban sustainability and improve the quality of life in the region. By aligning with SDG Indicator 11.7.1 and PDP Subchapter 2.3, the PFMS aims to contribute to the establishment of livable communities in Metro Manila.

In 2024, the PFMS focused on assessing green spaces in five cities: Navotas, Malabon, Valenzuela, Caloocan, Pasig, and Manila. The assessment involved identifying and validating green spaces, such as parks, center islands, grasslands, and both public and private green areas.

A key finding of this assessment was that a significant portion of green spaces in Metro Manila is located on private property, limiting public access. Additionally, it was observed that some areas classified as green spaces in the 2020 NAMRIA dataset have undergone development and are now occupied by built-up structures, with only scattered trees remaining.

The PFMS will continue to refine and expand this green space assessment, incorporating feedback from stakeholders and utilizing advanced technologies to enhance data accuracy and analysis. By understanding the current state of green spaces in Metro Manila, the PFMS can develop effective strategies to protect, conserve, and expand these valuable urban assets.

Tree Management Program (TMP) Implementation

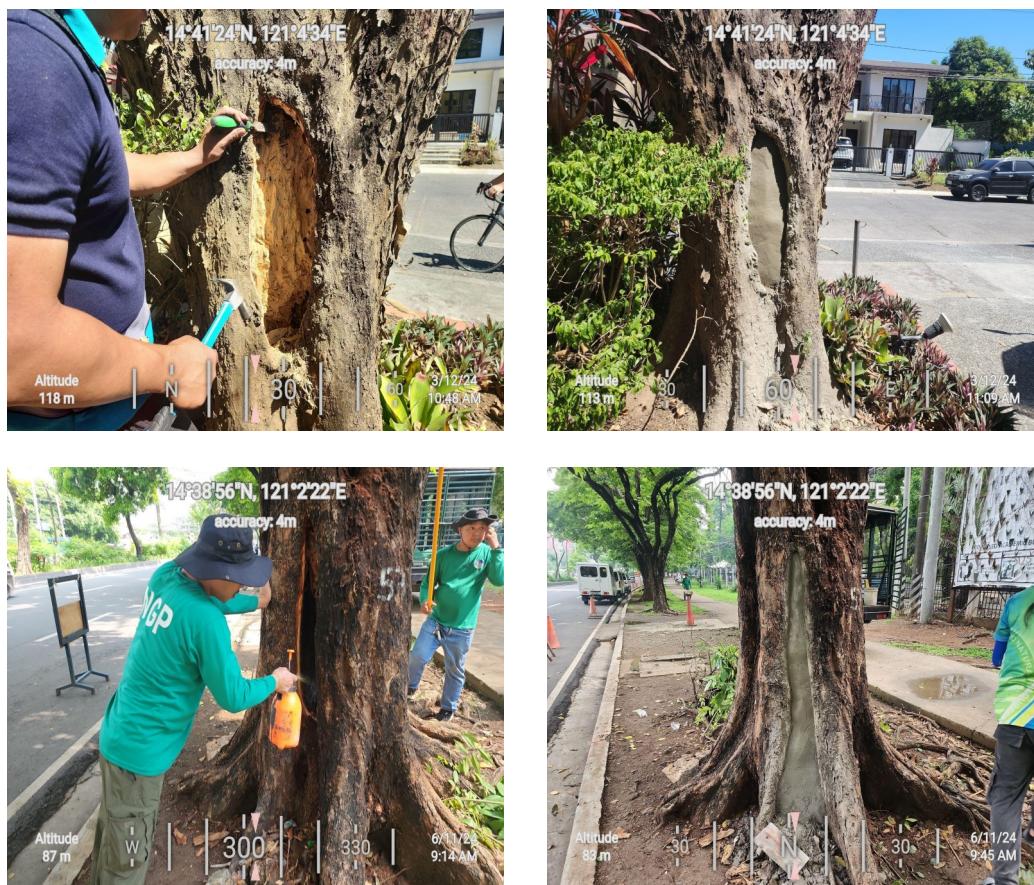
As the lead government agency tasked with the conservation and development of Metro Manila's environment and natural resources, the Department of Environment and Natural Resources – National Capital Region (DENR-NCR) is committed to enhancing and developing urban greenspaces for sustainable development. A key strategy in achieving this goal is through the Tree Management Program (TMP), which involves the surgical treatment and silvicultural care of ailing trees within the region.



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In 2024, the DENR-NCR's tree surgeon team successfully treated a total of 39 ailing trees across various locations in Metro Manila. These locations included:

- Mini Forest Park, BF Homes, Quezon City
- Roadside of Senator Miriam Defensor Santiago Avenue (formerly Agham Road)
- Roadside of Roads 10 and 11, Barangay Pag-Asa, Quezon City
- North Avenue, Barangays Vasra and Central, Quezon City
- Rizal Park, City of Manila



Figures 57-60. During and After Treatment of ailing Narra Tree located at BF Homes, Quezon City

The treatment process involved cavity cleaning, fungicide application, and insecticide treatment to prevent recurrent infections and promote tree health.

By implementing the TMP, the DENR-NCR aims to preserve Metro Manila's urban forest and contribute to a more sustainable and resilient city.



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Monitoring of National Greening Program (NGP) Sites

In accordance with the Memorandum of the Director of Forest Management Bureau and National Coordinator of the National Greening Program dated 09 October 2018, DENR-NCR conducted regular monitoring visits to NGP sites. During CY 2024, a total of 66 NGP sites established between 2011 and 2022 were inspected by various DENR-NCR officials, including the Regional Executive Director, Assistant Regional Director for Technical and Management Services, Chief of the Conservation and Development Division, NGP Regional Coordinator, NGP Focal Persons, Technical Staff, and Forest Extension Officers. Geotagged photographs and detailed reports were submitted for each site visit.

Technical Assistance to the Department of Social Welfare and Development's Pantawid Pamilyang Pilipino Program (4Ps)

In fulfillment of DENR-NCR's commitment as a member of the DSWD-NCR Regional Advisory Committee, the Production Forest Management Section's Mechanized and Modernized Forest Nursery (MMFN) under the Enhanced National Greening Program (ENG) produced and distributed assorted vegetable seedlings to beneficiaries of the Department of Social Welfare and Development's Pantawid Pamilyang Pilipino Program (4Ps). This initiative was made possible through a Memorandum of Agreement between the Department of Environment and Natural Resources National Capital Region and the Department of Agriculture, which provided the necessary vegetable seeds.

In fulfillment of DENR-NCR's commitment as a member of the DSWD-NCR Regional Advisory Committee, the Production Forest Management Section's Mechanized and Modernized Forest Nursery (MMFN) under the Enhanced National Greening Program (ENG) produced and distributed 58,706 assorted vegetable seedlings to members of Gulayan sa Barangay, primarily housewives who maintain communal gardens in various barangays across Metro Manila.

The establishment and maintenance of these communal gardens align with National Advisory Committee Resolution No. 38 Series of 2016, which encourages government and private agencies to support such initiatives. By providing vegetable seedlings, DENR-NCR contributes to addressing health concerns and food security issues within these communities.



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Table 4. Distribution of Assorted Vegetable Seedlings in the cities of Metro Manila

City	Distributed vegetable seedlings (pcs)
Caloocan City	8,113
Las Piñas City	5,821
Mandaluyong City	2,141
Manila City	4,482
Marikina City	2,633
Muntinlupa City	7,613
Navotas City	6,419
Parañaque City	2,741
Pasay City	4,029
Pasig City	943
Quezon City	5,417
Taguig City	8,354
TOTAL	58,706

Partnerships for the La Mesa Watershed Reservation

To strengthen the conservation and management of the La Mesa Watershed Reservation, the Department of Environment and Natural Resources – National Capital Region (DENR-NCR), through its Conservation and Development Division – Production Management Section (CDD-PFMS), forged partnerships with eleven (11) organizations in 2024. These partnerships, formalized through Memoranda of Agreement (MOAs), are in compliance with Executive Order No. 26, Series of 2011, which mandates the integration of all greening initiatives under the National Greening Program (NGP). By collaborating with these organizations, DENR-NCR aims to ensure the long-term sustainability of the watershed and its vital ecological services.

To ensure the long-term survival of the planted seedlings, the MOAs stipulate that DENR-NCR has the authority to monitor and evaluate the adopted NGP sites. This provision empowers the agency to oversee the partner organizations' compliance with their obligations regarding the maintenance and protection of the planted seedlings.



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Table 5. MOA entered with various organizations for C.Y. 2024

Name of organization	Location	Year established of adopted NGP site	Area (ha)
ING Hubs B.V. Philippine Branch	La Mesa Water-shed Reservation	2016	1.0
People 360 Consulting Corporation		2016	1.0
Bank of the Philippine Islands (BPI)		2016	1.0
AAI Charity Foundation Inc.		2016	1.0
BAUER Foundations Philippines Inc.		2016	1.0
FEU Institute of Technology		2016	1.0
FEU Diliman		2016	1.0
New Era University		2016	1.0
MW Roberto Q. Pagotan Masonic Lodge No. 282		2016	1.0
Philippine Chinese Charitable Association Inc. (PCCAI)		2016	1.0
School Division Office (SDO) - Quezon City		2016	1.0



Figure 61. Memorandum of Agreement Signing Ceremony of NGP Site Adoption



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Technical Assistance to Clients

The Production Forest Management Section (PFMS) is committed to providing technical support to a diverse range of clients from various sectors. This support includes:

- Seedling Provision: Providing seedlings to individuals and organizations promoting urban green spaces.
- Technical Guidance: Supporting the planning and implementation of tree planting activities.
- Capacity Building: Conducting seminars and workshops to share knowledge and expertise.

This office extended technical assistance to a total of 994 clients, contributing to the enhancement of urban green spaces and environmental conservation efforts in Metro Manila.

Community PanTree Initiative

The Community PanTree initiative, launched by the Department of Environment and Natural Resources – National Capital Region (DENR-NCR) in 2021, is an innovative approach to promoting urban greening, food security, and environmental awareness. Inspired by the community pantry concept, DENR-NCR distributes free seedlings of fruit-bearing trees, forest trees, and vegetables to the public.

DENR-NCR conducted numerous Community PanTree events during environmental celebrations, Dalaw Turo activities, and in collaboration with the Metropolitan Environmental Offices – South, North, East, and West. A total of 20,916 planting materials were distributed to communities in Manila City, Navotas, Parañaque, Quezon City, Taguig, and Valenzuela City.

Community-Based Employment Program (CBEP) under NGP

In 2024, DENR-NCR generated 10 jobs through the Community-Based Employment Program (CBEP) under the National Greening Program (NGP). A total budget of Php 1,402,046.38 was allocated for the following positions:

- Two (2) Forest Extension Officers (FEO)
- One (1) Head Grower
- Two (2) Driver Messengers
- Five (5) Farm Workers



Figure 62. MMFN Staff



INTENSIFIED FOREST PROTECTION AND ANTI-ILLEGAL LOGGING

The C.Y. 2024 tipped open a comprehensive outpouring for change and achievements, exposing some adversities and insidious elements circulating the Region. Despite being in the midst of a chaotic war against environmental defenders, as well as underneath the layers of gaps, exploitations, and uncertainties, the profound commitment and dedication of personnel of this Office from the Compliance Monitoring and Investigation Section, Surveillance and Intelligence Section, Wildlife Traffic Monitoring Unit, and Forest Products Monitoring Station are commendable in contributing to the local and global discourse on forest and wildlife protection and conservation. Indeed, everyone is a key player in winning the battle for nature on the frontlines.

The DENR-NCR's Enforcement Division (ED) operates as one of the specialized divisions established within the Department of Environment and Natural Resources – National Capital Region (DENR-NCR), following the organizational setup outlined in Executive Order No. 366. This restructuring placed ED under the oversight function of the Assistant Regional Director for Technical Services.

ED is composed of two primary Sections: the Surveillance and Intelligence Section (SIS) and the Compliance, Monitoring, and Investigation Section (CMIS). Within CMIS, two distinct units significantly contribute to the regulation and oversight of wildlife-related activities within the specified domain:

- The Forest Products Monitoring Station – Port Integrated Clearance Office (FPMS-PICO) is tasked with verifying and monitoring the legality and compliance of forest products, as well as wildlife species, derivatives, and by-products passing through the pier zone.
- The Wildlife Traffic Monitoring Unit – Ninoy Aquino International Airport (WTMU-NAIA) focuses on the validation, physical examination, and inspection of documents related to the local transport, export, re-export, and import of wildlife and its associated by-products and derivatives.



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FOREST MANAGEMENT POLICY

The DENR NCR conducted regular monthly price data monitoring/survey of forest products commodities from January to December 2024. Likewise, this region submitted four (4) consolidated Price Data Summary Reports with monthly breakdown to the Forest Management Bureau (FMB).



Figures 64-65 . Monthly monitoring of price data of forest products in the National Capital Region.

Implementation of Statistical Reporting System (SRS)

For the C.Y. 2024, a total of eight (8) Statistical Reports were accomplished by the Region through the Enforcement Division.

Out of the total, four (4) were submitted to the FMB detailing gathered data on lumber, plywood, and other wood-based products used within the National Capital Region for production, disposition, and importation.

In the same manner, four (4) reports containing data on retrieved, donated, turned over, rescued, seized, and confiscated wildlife resources were submitted to the Biodiversity Management Bureau (BMB). Additionally, reports submitted to the BMB include information on monitored Certificate of Wildlife Registration holders specified into species name, number of registered wildlife stocks, additional stocks, mortality, and stocks disposed of.

Capacity Building to DENR-NCR Field Personnel and Enhance Their Skills and Competencies for Effective Protection of Forests and Plantations for Biodiversity Conservation

Over time environmental criminals have adapted to technologically advanced and innovative methods to further exploit our depleted natural resources, wildlife, and ecosystems. To address this, the Enforcement Division is constantly finding ways to bridge the gap between legislation, action, and strengthening or enhancing our existing protocols to combat the scale and nature of these oppressive and destructive crimes. Part of this is the conduct of training/seminars that foster critical skills and knowledge that aids in understanding the laws and regulations that safeguards our environment and the resources therein.



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For the C.Y. 2024, ED conducted a training on Wood-Based resources entitled, Protocols on Forestry Law Enforcement and Monitoring of Wood-based Permits for the Enforcement Division Personnel, and Orientation of Stakeholders on Republic Act No.9175 – Chainsaw Act of 2002, In Relation to Presidential Decree Nos. 953 and 705, as amended, a learning event on Wildlife Law Enforcement Protocols, Basic Surveillance, Cybercrime Investigation, and Databasing and Analysis of ENR Cases for the Enforcement Division Personnel, and a capacity building on Republic Act No. 9147- Wildlife Resources Conservation and Protection Act and Related Laws and Policies for the Deputation of Wildlife Enforcement Officers (WEOs) From the City/Municipal Veterinary Office of Local Government Units of National Capital Region, Under Section 30 of Republic Act No. 9147.



Figure 66-68. Some of the workshops/training/consultation events conducted by the ED Personnel are regarding the Chainsaw Act (A), Wildlife Act and Protocols (B), and mobilization of WEO (C).

For the C.Y. 2024, personnel of the DENR-NCR Enforcement Division attended various conferences/trainings/seminars that improved their knowledge and skills in providing technical and professional services, exposing them to the latest innovations and technologies related to management and enforcement of ENR Laws and Regulations. Some of the training attended include Environment and Natural Resources (ENRA) Frontline and Basic Courses, Supervisory Development Course Track 2, Financial Investigation Training, Training on the Strengthening of Field Operations: Implementation of the Tree Cutting Online Permitting System, 2024 National Conference of the Society of Filipino Foresters Inc. (SFFI), Annual Validation Workshop for Philippine Forestry Statistics, Combatting Illegal Wildlife Trade in Manila Ports, Consultation Workshop for the Policies and Programs Relative to the Sustainable Use of Wildlife Resources, and etc. The attendance to aforementioned engagements demonstrates the desire of ED personnel for continuous growth and to provide better quality service to stakeholders.



Figure 69-73. The attendance to various workshops/training/consultation events of the ED Personnel included the ENRA Courses (A & B), SFFI (C), Wildlife Policy and Illegal Activities Consultation (D & E).



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Consistent Apprehension and Mandatory Administrative Adjudication of Apprehended Forest Products including Conveyance and Other Implements

The Department's Natural Resources Enforcement and Regulatory Program was implemented to regulate and curb illegal forest activities. As part of this program, the Enforcement Division, through its various operating units in coordination with other law enforcement agencies, undertook successful interventions to implement PD 705 or the Revised Forestry Code. The Division collaborated with other law enforcement agencies to seize illicit forest products, demonstrating their commitment to this cause.

On May 23, 2024, the Enforcement Division was informed by the PNP Southern NCR Maritime Police Station about abandoned lumber along the service road in Brgy. Cupang, Muntinlupa City. These assorted lumber, numbering 20 pieces, were all found to have a single dimension. Upon scaling, it generated a volume of 200 board feet. Turnover of these lumber was made on May 29, 2024 in the DENR-NCR Production Nursery Compound.

Acting on the information by the PNP-Northern NCR Maritime Police Station, on July 31, 2024, the Enforcement Division participated in an operation for violation of Sec. 77 of PD No. 705 or the Revised Forestry Code, as amended, against an illegal trader undocumented forest products and used lumber in Malabon City. All in all, a total of 1,053 pieces with an aggregate volume of 3,181.33 corresponding to 19.82 cubic meters, as well as one (1) unit circular saw, were apprehended from the violator. Likewise, on August 7, 2024, an anti-illegal operation was executed again by the PNP-Northern NCR Maritime Police Station in a sash factory possessing unregistered lumber and operating illegally in Caloocan City. Enforcement Division personnel provided technical assistance during the scaling, inventory and hauling of these forest products, which included Mango lumber and furniture pieces. A total of 8,764 pieces of assorted forest products, corresponding to 26,919.62 board feet, were apprehended and hauled.

Lastly, on November 29, 2024, another technical assistance was provided by the Enforcement Division in another entrapment operation led by the above PNP office, leading to the apprehension of 47 pieces of Lauan lumber with a volume of 500 board feet.

Except for the turnover of abandoned lumber in Muntinlupa City by the PNP-Southern NCR Maritime Police Station, all cases involved unauthorized trading and possession of forest products, leading to the issuance of Apprehension and Seizure Receipts and Orders, and placing the confiscated contrabands under government custody for the duration of administrative adjudication.

The apprehended undocumented forest products, totaling 32,057.35 board feet, representing approximately 400.71% of the Division's annual target of 8,000 bd ft. This accomplishment underscores the Division's proactive efforts in upholding regulatory standards and preserving the integrity of our natural resources.



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Figures 74-76. Inventory and hauling of apprehended forest products

One (1) administrative adjudication proceedings have been initiated this year for the apprehension of undocumented forest products. The conduct of these proceedings accords with the provisions of DAO No. 97-32, which outlines the 1997 Rules for the Administrative Adjudication of Illegal Forest Products and the Machinery, Equipment, Tools, and Conveyance Used in Connection therewith. This process is essential for enforcing forestry laws, rules, and regulations as it provides a formal procedure for dealing with violations related to the possession, gathering, collection, processing, and transportation of illegal forest products.

Improve Infra-structure and Institutional Support in Filing Criminal Complaints and Prosecution of Forestry Cases

Maintenance of Port Integrated Clearance Office

The Office of the Forest Products Monitoring Station (FPMS)-Port Integrated Clearance Office (PICO) has been improved and maintained to support law enforcement activities and the monitoring of forest products, wood materials, wildlife species, their derivatives, and by-products passing through the Port of Manila, ensuring the protection and conservation of natural resources.



Figures 77-78. Modified and improved office of the Forest Products Monitoring Station

Monitoring and Verification of Arrival of Forest Products

The Forest Products Monitoring Station (FPMS) conducted monitoring and verification of the arrival of forest products and wildlife resources to determine their legality before issuing the required transportation documents to their destination or consignee.



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A total of 44,340.84 cubic meters of local lumber shipments were monitored and verified by this station, with the majority of the volume originating from Region 09 and Region 10.

Table 6. Monitored/verified local forest products for the issuance of transport documents in the seaport.

		REGION					
		NCR	3	4	CAR		
Local Lumber	7	3,581.13	2,151.76	92.05	-	Gmelina, Mahogany & Imported finished product	5,824.94
	9	3,997.68	10,432.62	4,919.22	-	A.mangium, Falcata, Gmelina, Mahogany, Mango, Marang & Rubber	19,239.53
	10	3,984.08	6,992.25	894.74	-	A.mangium, Falcata, Gmelina, Jack Fruit, Mahogany, Mango, Marang, Narra & Rubber	11,801.07
	11	772.86	1,124.80		-	Bagras, Falcata, Gmelina, Mahogany, Mango & Rubber	1,897.66
	12	988.83	508.70	23.91	-	Acasia, African Tulip, Bangkal, Gmelina, Mahogany, Rubber	1,521.44
	13	980.51	860.71	23.09	260.28	A.mangium, Falcata, Gmelina, Mahogany, Marang	2,124.59
	BARMM	-	1,455.62	475.99		A.mangium, Bangkal, Falcata, Gmelina, Mahogany, Mango	1,931.61
TOTAL		14,195.09	23,456.45	6,429.01	260.28		44,340.84



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Table 7. Monitored/verified imported forest products for the issuance of transport documents in the seaport.

PRODUCTS	COUNTRY	REGION			SPECIES	TOTAL
		NCR	3	4A		
Imported Lumber	Argentina	5,915.09	5,491.90	10,026.66	Taeda Pine & Okoume	21,433.65
	Austria	-	-	29.62	Ash Timber	29.62
	Bosnia & Herzegovina	-	-	236.17	Bosnian Beech & Oak Timber	236.17
	Brazil	2,674.47	166.76	315.57	Brazilian Pine, Eucalyptus & Teak	3,156.79
	Canada	5,397.36	-	738.40	Hemlock, Pine, Fir & Red Cedar	6,135.76
	Czech Republic	465.59	-	-	Whitewood	465.59
	Estonia	-	-	43.18	Redwood Pine	43.18
	Finland	-	76.14	83.21	Pine	159.35
	Gabon	20,060.31	142.02	22,166.07	Andoung, Azobe, Bilinga, Doussie, Ebiera, Okan, Ovengkol, Ozigo, Tali, Wenge & Padouk	42,368.39
	Germany	1,000.15	-	-	Ash, Black Walnut, White Oak & Poplar	1,000.15
	Malaysia	23,283.43	20,951.21	8,927.13	Malaysian Timber	55,142.39
	Slovenia	-	-	33.76	Oak	33.76
	Solomon Islands	848.66	-	289.38	Kwila, Rosewood & Vitex	1,138.04
	Ukraine	-	-	437.31	Ash & Spruce	437.31
	Uruguay	255.36	-	533.20	Eucalyptus, Red Grandis & Taeda Pine	788.56
	USA	1,272.04	525.38	151.31	Ash, Douglas, Hard Maple. Hemlock Fir, Red Oak, White Oak, Southern Yellow Pine & Yellow Polar	1,948.73
TOTAL		61,172.45	27,353.41	44,010.95		134,567.66

However, monitored imported poles arrival is 6,592.85 cubic meters or 659.28 percent of the 1,000 cubic meters annual target.

Monitored and verified local/imported non-timber forest products and other wood materials shipments (not included on WFP) found covered with required shipping/transport documents from DENR Origin and/or Authority to Import Wood Products/Materials were cleared by our Station. The said shipments including each total volume or unit of measures are as follows: Almaciga Resin-703,100.00 kilos, Rattan Poles/Wickers - 775,083.50 linear meters, Veneer-1,469.55 cubic meters, Plywood – 20,755.16 cubic meters, Medium Density Fiberboard (MDF) - 8,495.94 cubic meters and Particleboard-9,138.51 cubic meters.

Based on the above arrival of imported forest products/wood materials, a total of 950 shipments monitored covered with importation documents in accordance with DAO 2021-06 of 358 shipments were consigned outside Metro Manila and 592 shipments were endorsed for inspection/verification subject for authentication.



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Table 8. Inspected/verified Imported forest products/wood materials subject for authentication.

PRODUCTS	COUNTRY	REGION			SPECIES	TOTAL
		NCR	3	1		
Imported Logs	Australia	515.55	-	-	Hardwood Poles	515.55
	Guyana	-	40.56	-	Purpleheart Logs	40.56
	Malaysia	-	252.70	1,081.88	Sabah Round Logs	1,334.58
	Papua New Guinea	-	4,561.10		Papua New Guinea Round Logs	4,561.10
	South Africa	-	-	140.22	Eucalyptus Logs	140.22
	USA	-	360.84	-	Southern Yellow Pine Poles	360.84
TOTAL		515.55	5,215.20	1,222.10		6,952.85

Table 9. Inspected/verified minor forest products.

KIND OF FOREST PRODUCTS	ORIGIN OF FOREST PRODUCTS (REGION)	DESTINATION			TOTAL
		NCR	REGION 3	REGION 4A	
1.1 Rattan (L.m)	13	-	75,000.00	-	75,000.00
	4B	304,403.00	110,015.50	285,665.00	700,083.50
TOTAL		304,403.00	185,015.50	268,665.00	775,083.50
1.2 A. Resin (Kgs.)	4B	703,100.00	-	-	722,100.00
TOTAL		703,100.00			722,100.00
1.3 Plywood (Cu.m)	10	944.65	2,241.84	261.82	3,448.31
	11	4,284.97	-	-	4,284.97
	13	409.89	39.65	-	449.54
TOTAL		5,639.51	2,281.49	261.82	8,182.82
1.4 Veneer(Cu.m)	10	154.55	-	-	154.55
	13	1,315.00			1,841.13
TOTAL		1,469.55			1,995.68

Table 10. Inspected/verified other minor forest products.

KIND OF FOREST PRODUCTS	ORIGIN OF FOREST PRODUCTS (REGION)	DESTINATION			TOTAL (cu.m)
		NCR (cu.m)	REGION 3 (cu.m)	REGION 4A (cu.m)	
1.1 MDF	China	181.11	-	-	181.11
	Malaysia	2,271.36			2,271.36
	Thailand	5,399.46			5,709.73
	Vietnam	644.01			644.01
TOTAL		8,495.94			8,806.21
<hr/>					
1.2 Particleboard	China	271.03	-	-	271.03
	Indonesia	215.40			215.40
	Malaysia	144.20			144.20
	Thailand	8,507.88			8,507.88
TOTAL		9,138.51			9,138.51
<hr/>					
1.3 Plywood	China	3,179.46	-	-	3,212.59
	Malaysia	26.01			26.01
	USA	12.70			12.70
	Vietnam	9,354.17			9,354.17
TOTAL		12,572.34			12,695.47

Opening/inspection in coordination with the Bureau of Customs with the presence of port operator and the consignee to determine if the shipment has discrepancies in terms of species pieces and volume for possible violation of Section 77 of PD No. 705, as amended, and existing DENR policies and procedures.



Figures 79-80. Opening and Inspection of lumber shipments at MNHPI container yard, North harbor, Tondo, Manila



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Validation and Examination of Transport Documents

The FPMS validated and examined Shipping/Transport Documents of forest product shipments prior to issuance of required transportation documents to its final destination or consignee. A total of 1,889 transport/shipping documents were validated/examined by our Station. The said number is equivalent to 104.94% accomplished against the 1,800 annual targets.

Coordination with Other Enforcement Agencies

To strengthen monitoring and law enforcement activities within pier zone, the FPMS regularly conducted coordination and collaboration with other law enforcement government agencies/office (PPA, PCG, PNP Maritime, BAI, BPI and BOC) for effective and strengthening law enforcement activities in the pier zone for the conservation and protection of natural resources.

Forty-two (42) reports were submitted in coordination with other partner government agencies/offices at Port of Manila and 116% accomplished.



Figures 81-83. Coordination with partner government agencies stationed at Port of Manila

Maintenance and Updating of Forest Products Database

An updated database of incoming forest products and wood materials shipments is systematically maintained for data recording, storage, and ease of information retrieval and submission of accomplishment reports.

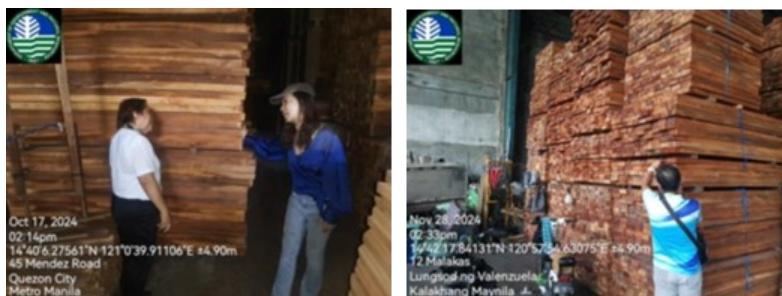


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Re-scaling/Inventory of Transported Forest Products

Lumber

Prior to the issuance of a Clearance to Dispose in favor of the respective consignee, a thorough inspection to ensure compliance with existing forestry laws, rules, and regulations in the respective stockyards and rescaling of local lumber products of various wood-based permittees are conducted, as mandated by a duly notarized undertaking issued by the FPMS. In 2024, the Division surpassed its annual target by achieving a total of 6,700.62 cu.m., exceeding the set goal of 7,500 cu.m.



Figures 84-85 . Inspection/rescaling of local lumber forest products

Semi- Finished/Finished Products

A total of 1,085,833 pieces of semi-finished and finished products are inventoried from the 1,800,000 pieces annual target of C.Y. 2024. These products include knockdown pallets, S4S KD lumber, doors, door jambs, cornices, and sticks.



Figures 86-87. Inspection/rescaling of semi-finished/finished forest products.

Almaciga Resin

The region inventoried a total of 603,115 kilos of Almaciga Resin, surpassing the 100,000 kilos annual target, which is recommended for disposal after accounting.



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Figures 88-89 . Inspection/rescaling of Almaciga resin

Rattan Poles

In 2024, a total of 398,460.00 linear meters of Rattan Poles were accounted for and allowed for disposal, which surpassed the 200,000 linear meter annual target.



Figure 90-91. Inspection/rescaling of rattan poles

Inspection/Verification of Shipments of Imported Products Subject of Authentication

By December 2024, 322 imported forest/wood shipments were inspected, exceeding the annual target of 250, completing 128.8% of the activity.



Figure 92-93. Inspection/verification of shipped forest products subject for authentication



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Monitoring of Wood-based Establishments

The region through the Enforcement Division conducted regular monitoring and inspection of the wood-based permittees validating their compliance with the terms and conditions stipulated in their approved Certificate of Registration (COR). For C.Y. 2024, ED successfully monitored two hundred thirty-one (230) permittees. Aforesaid total is subdivided into specific categories based on the issued COR, these includes COR as a Lumber Dealer, COR as Importer/Dealer of Wood Materials, and COR as Wood Processing Plants.

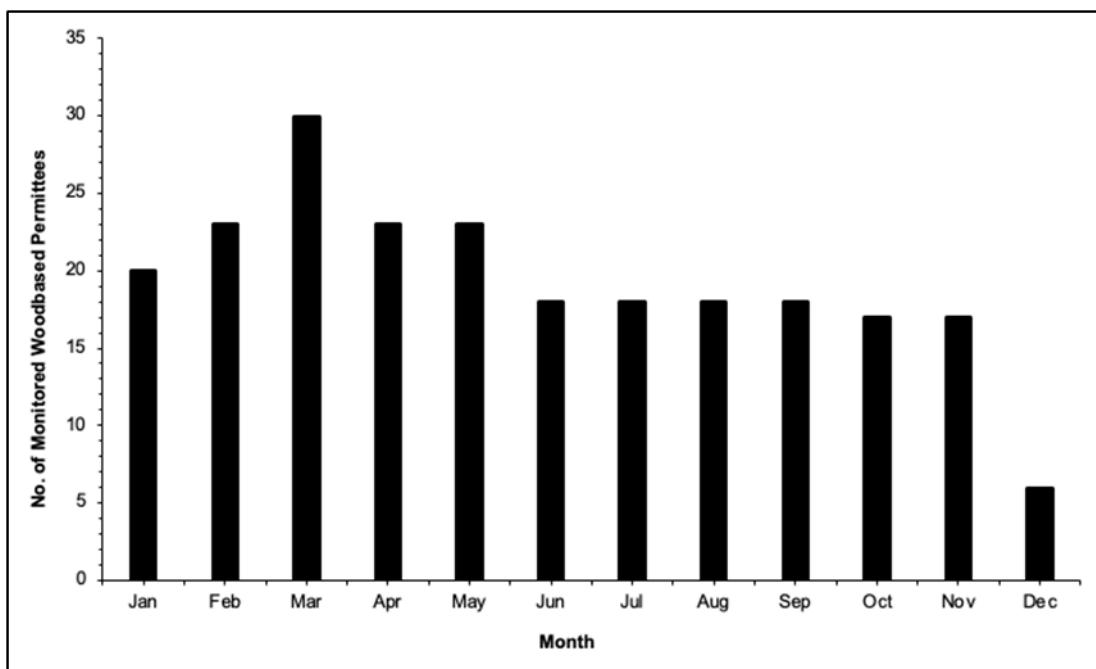


Figure 94. The number of monitored wood-based establishments for the C.Y. 2024.



Figures 95-97. Monitoring/inspection of wood-based establishments in NCR.



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Monitoring of Chainsaw Permittees

Pursuant to DENR Administrative Order No. 2003-24, also known as the Implementing Guidelines of the Chainsaw Act of 2002 (R.A. No. 9175), individuals or institutions opting to possess/operate/sell chainsaws are required to have a duly issued Certificate of Registration and Permit to Import/Purchase/Sell prior to utilization/operation.

Certificate of Registration

The Certificate of Registration (COR) is issued to authorize individuals to own, use, and possess chainsaw units in accordance with the terms and conditions specified in the permit. To ensure proper compliance and supervision of proper use, the Division regularly conducts inspections of the permits and registered chainsaws. In C.Y. 2024, the Division aimed to monitor 100 permits and successfully inspected 119 permits, surpassing the initial goal.

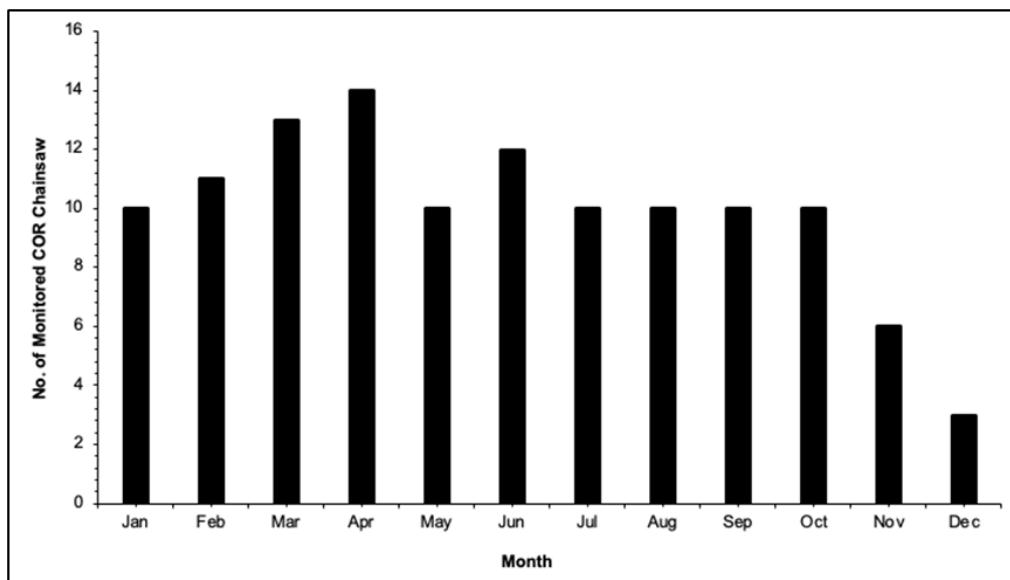


Figure 98. The number of monitored COR Chainsaw for the C.Y. 2024.



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Permit to Import/Sell/Purchase

Before the issuance of a Permit to Import, Sell, or Purchase Chainsaw, the Enforcement Division regularly conducts compliance monitoring of companies or permittees that distribute or sell chainsaw units. In C.Y. 2024, a total of ninety-three (93) permits were monitored and validated, exceeding the annual target of fifty (50) permits.

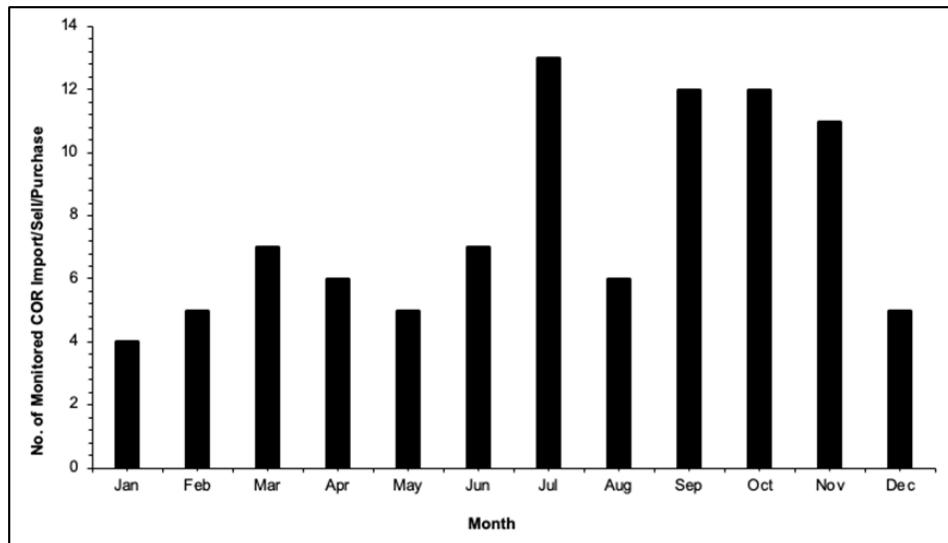


Figure 99. The number of monitored chainsaw units for distribution or sale for the C.Y. 2024



Figure 100-102. The monitoring/inspection of chainsaw units subject to Permit to Sell



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Inspection/Verification of Forest Products for Transport

The inspection and reissuance of transport documents are executed prior to the transport of forest products outside Metro Manila. In view of this, the Division exceeded its annual target of two hundred fifty (250) inspected/verified permits by acting on three hundred fifty-five (355) transport documents.

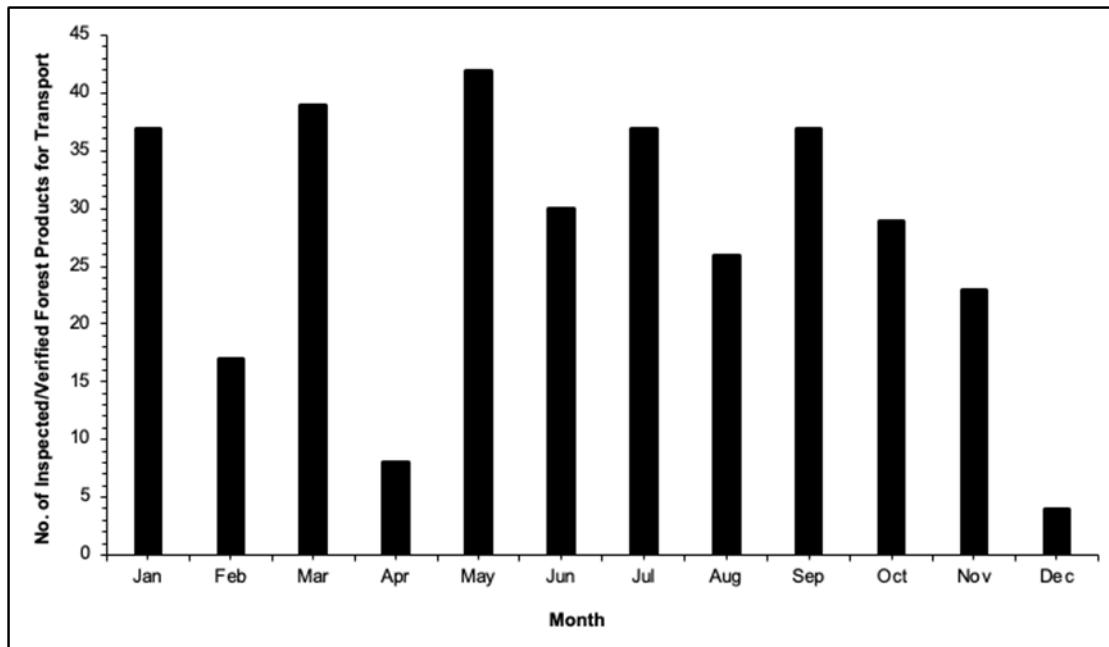


Figure 103. The number of inspected forest products subject for transport.



Figures 104-106. The inspection/verification of forest products prior to the issuance/reissuance of transport documents.



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Compliance Monitoring of Tree Cutting/Balling/Pruning Permit

In adherence to DENR Administrative Order No. 2021-11, delineating protocols for the processing and issuance of permits for tree cutting, earth balling, and pruning of naturally growing trees, the Division diligently monitored a total of 348 permits for CY 2024. This achievement not only met but surpassed the annual target by an impressive 116%.



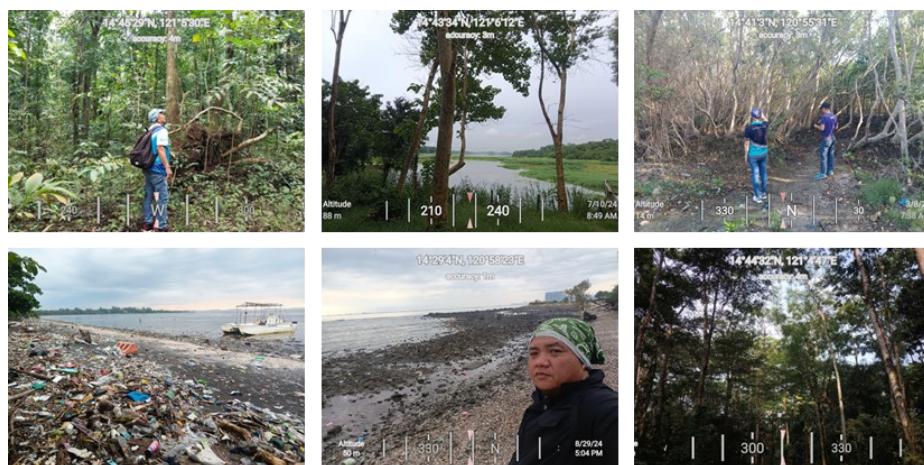
Figures 107-108. Compliance monitoring of tree cutting/balling/pruning permits

Sustainable Implementation of the Land Forest and Biodiversity Protection System

Support to Full Operationalization of LAWIN System

In accordance with the Quarterly Patrol Plans submitted to the Forest Management Bureau (FMB), there are three designated Forest Conservation Areas within the National Capital Region: (1) La Mesa Watershed Reserve (LMWR), (2) Las Piñas-Parañaque Wetland Park (LPPWP), and (3) Tanza Marine Tree Park (TMTP), that are covered by the consistent patrolling of the LAWIN Patrollers or Forest Rangers.

In 2024, the monitoring teams effectively covered a total distance of 1,290.46 kilometers (kms.) across all three conservation areas, specifically 263.19 km. for LPPWP, 804.06km. for LMWR, and 223.21 km. for TMTP.



Figures 109-114. Implementation of Support to Operationalization of LAWIN System



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Database Maintenance for LAWIN

The LAWIN System oversees a comprehensive database called the Spatial Monitoring Reporting Tool (SMART) Desktop. This database allows for the real-time capture of observations, identification of potential threats, and recording of responses to those threats. The tool enables patrollers to conveniently import patrol data collected through the Cyber Tracker application installed on smartphones. This data can also be converted into shapefiles, facilitating efficient data management and analysis.

Permit Issuance and Monitoring of Land and Land Resources Use

Compliance Monitoring to Conditions of Permits/Leases/Deeds Issued

Three (3) compliance monitoring activities were accomplished this year, successfully surpassing the annual target assigned to the Enforcement Division.

The Contract of Lease with the Comembo Market Vendors' Association (COMAVENA) in J.P. Rizal, Makati City, underwent thorough scrutiny to assess the lessees' adherence to the terms and conditions stipulated thereof. In GR No. 235316 which promulgated on September 28, 2022, the Supreme Court transferred portions of the City of Makati, including Comembo, under the territorial jurisdiction of Taguig City. Corollary thereto, the said lease was monitored on the basis of an extension of the Lease Agreement to another 25 years beginning October 27, 2023.

Simultaneously, the lease agreement with the Manila Yacht Club and RAV Realty were subject to inspection for identical compliance verification, the latter being an applicant for renewal of lease for another 25 years. In both cases, the lessees demonstrated commendable conformity with the stipulations outlined in the respective leases contracted with the DENR.



Figures 115-117. The compliance monitoring of permits/lease/deeds issued by the DENR-NCR.



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Issuance of Protected Area Community-Based Resource Management Agreement and Monitoring of Protected Areas, Wildlife, Coastal and Marine Resources

Conduct of Compliance Monitoring and Monitoring of Wildlife Resources

Pursuant to DENR Administrative Order No. 2004-62, all wildlife faunal species—whether threatened, non-threatened, or exotic—that are possessed and maintained by private individuals or entities must be registered with the Department of Environment and Natural Resources for a Certificate of Wildlife Registration (CWR), Wildlife Farm Permit (WFP) or Clearance to Operate (CTO). These permits are subject to monitoring by the Enforcement Division on an annual or quarterly basis.

Conduct of Annual Inventory/Monitoring of Zoo

In the National Capital Region, there are two (2) Zoos, namely, the Malabon Zoo Aquarium & Botanical Garden and Manila Ocean Park, which have received a Clearance to Operate as authorized facilities for wildlife exhibition and have undergone inventory and monitoring in 2024.



Figure 118-120. Compliance monitoring of a Zoo with Clearance to Operate in NCR

Monitoring of CWR Holders

The Department of Environment and Natural Resources (DENR) issues a Certificate of Wildlife Registration (CWR) to authorize individuals to own and possess specific wildlife species. This permit details the species, quantity, and types of wildlife that the permit holder is allowed to possess. The CWR is issued only once during the lifetime of the permit holder. However, any progeny bred from the species listed in the CWR does not require an additional or supplemental CWR. Instead, the permit holder must officially declare these progenies in a Quarterly Breeding Report (QBR). This report documents mortalities, acquisitions, dispositions, and the progeny of owned wildlife stocks and must be submitted to the DENR within ten (10) days following the end of each quarter. These reports will be monitored for compliance.



Figure 121. Compliance monitoring of CWR holders for the C.Y. 2024.



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Some CWRs monitored were forwarded to the Licenses, Patents, and Deeds Division (LPDD) with recommendations for cancellation. The monitoring of CWR holders achieved a total of five hundred twenty-three (523) accomplishments, in relation to the annual target of five hundred (500).



Figures 122-124. Inspected CWRs in NCR for the C.Y. 2024

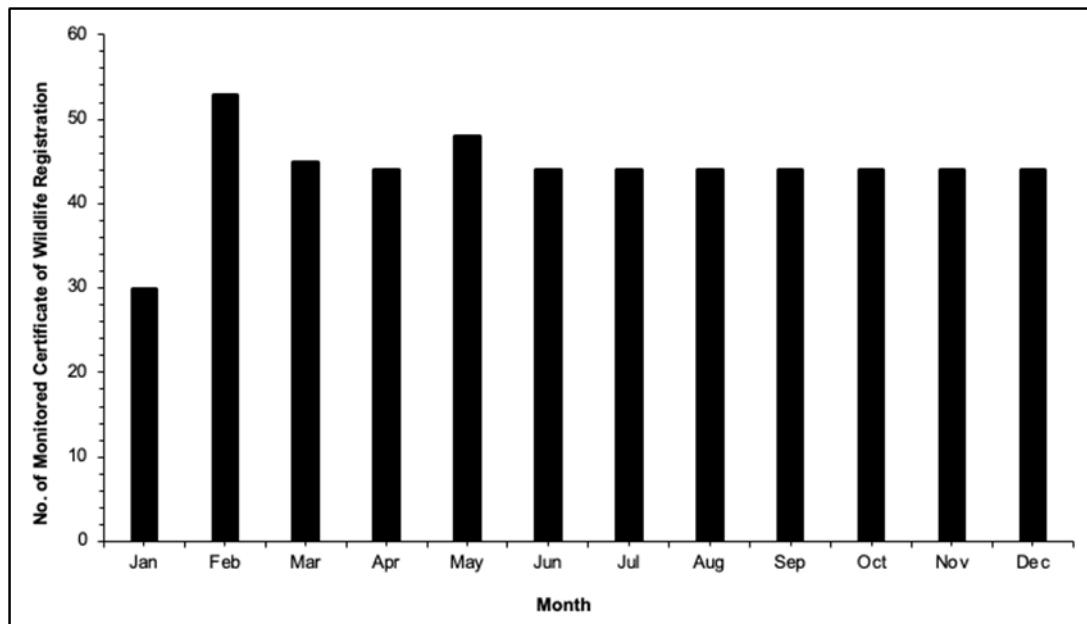


Figure 125. The number of inspected CWRs in NCR for the C.Y. 2024



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Monitoring of Designated Wildlife Rescue Centers

The Wildlife Rescue Center (WRC) plays a crucial role in the rescue, rehabilitation, and release of confiscated or surrendered wildlife. This work supports conservation efforts and helps gather evidence against illegal wildlife traders. Additionally, the WRC serves as an important educational resource, advocating for animal health, welfare studies, and legislation related to wildlife protection and conservation for both the public and professionals.

In the National Capital Region, two (2) facilities are recognized as Wildlife Rescue Centers: the Mala-bon Zoo Aquarium & Botanical Garden and the Manila Zoological & Botanical Garden. Both of these centers have been inspected and inventoried by personnel from the ED.

Updating of Database on Wildlife Permittees

The database for wildlife permit holders is consistently maintained and updated monthly. Newly issued wildlife permits received from the Licenses, Patents, and Deeds Division (LPDD) are promptly scanned, recorded, and uploaded to the database for accurate documentation.

Enforcement of Wildlife Laws, Rules and Regulations

Conduct of Wildlife Retrieval

The conduct of wildlife retrieval is managed by the Metropolitan Environmental Offices (MEOs), who are responsible for retrieving wildlife originating from various channels such as verbal or online inquiries, and requests from other government agencies. These wildlife species are successfully retrieved and entrusted to the Wildlife Rescue Center-Biodiversity Management Bureau (WRC-BMB) for proper custody and safekeeping. The Enforcement Division consolidates these reports and submits a monthly report to the WRC-BMB.

Wildlife retrieval and rescue activities serve as a critical component of the Department's effort not only to combat illegal wildlife trafficking but also to ensure the safety of our wildlife species. Protecting and caring for rescued animals, especially those under threatened conservation status, aligns with broader conservation goals to protect and preserve wildlife diversity and champion environmental conservation.



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Support to Coastal Law Enforcement

Mobilization of Coastal Law Enforcement Alliance in NCR (CLEAR)

In order to implement coastal-related laws in NCR, protect and manage Metro Manila's coastal and marine environment, and clarify the roles and duties of each member in achieving the primordial objective of the alliance. The Coastal Law Enforcement Alliance in NCR (CLEAR) conducted four (4) quarterly meetings for the year 2024, which was headed and facilitated by the Enforcement Division as secretariat of the alliance.

The 1st quarter meeting was conducted on the 19th of March 2024 at the Las Piñas Parañaque Wetland Park, which was attended by alliance members from various government agencies and LGUs. The meeting discussed different issues and concerns relative to Environmental laws and concerns of each agency which was coordinated and acted upon by the alliance. Also, identified training/plans during the last year's meetings were reviewed for implementation, including concerns raised by the members of the alliance.

The 2nd meeting was held on the 18th of June 2024 at the 4th floor Conference Room, National Ecology Center and was attended by different member agencies of the alliance. Concerns regarding maritime law enforcement and boundary disputes among LGU have been discussed. Initial identification of processes regarding the drafting of the new Memorandum of Agreement of all the members of the alliance has been touched during the meeting.



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The 3rd quarter meeting was conducted on 24th of September 2024. The members of the alliance still discussed different issues regarding coastal law enforcement, navigation and boundary issues among LGU members including presentation of the projects for the development of fisherfolks and management of coastal areas.

The 4th quarter was conducted on the 14th of November 2024, held at Manila Zoo Greenlight Conference Room in Manila City. The meeting again mainly focused on navigation and boundary issues among LGU members including presentation of the projects for the development of fisherfolks and management of coastal areas just like the previous meeting. A draft action plan has been agreed by all the members to address said issues. Also, future plans for 2025 of the alliance have been considered.



Figures 126-127. The quarterly meeting of CLEAR in NCR supervised by the Enforcement Division

Operations Against Illegal Environment and Natural Resources Activities

Conduct of Surveillance/Investigation on Complaints/Reports Regarding Illegal Tree Cutting

In response to reports received from citizens via various channels, including social media applications and the 8888 Citizen's Hotline, the Enforcement Division of the Department of Environment and Natural Resources - National Capital Region (DENR-NCR) undertook thirty-one (31) surveillance and investigation operations out of the thirty (30) annual target set for CY 2024.

By actively responding to these reports, DENR-NCR not only upholds its commitment to environmental protection but also ensures transparency and accountability. The subsequent detailed reports on the actions taken serve as proof of the dedication of the Office to addressing illegal and destructive activities against wildlife, in alignment with the expectations set by both the department and our valued citizens.



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Figures 128-130. The surveillance/investigation of complaints in relation to illegal forest activities.

Provision of Institutional Support in Investigation, Filing of Information and/or Criminal Complaints & Prosecution of Forestry Cases

Effective Patrolling and Surveillance of Identified Entry Points/Sites

Every year, the Enforcement Division closely monitors ten (10) strategic entry points into Metro Manila to identify any potential undocumented or illegally transported forest products. This continuous surveillance is crucial in enforcing the provisions of PD No. 705, as amended, and ensuring strict compliance with environmental regulations. It also helps prevent any illicit activities related to forestry within the urban landscape.

1. EDSA, Balintawak, Quezon City
2. Brgy. Commonwealth, LITEX
3. Canumay, Maysan Road
4. Malinta Exit
5. Paso De Blas, Valenzuela City, going to Kaybiga Road
6. Quirino Highway, going to the boundary of Novaliches and Caloocan
7. Lawang Bato
8. Bicutan-Sucat
9. Zapote-Bacoor-Cavite
10. Tunasan to San Pedro



Figure 131. The location of strategic entry points/sites within the National Capital Region.



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Support to Investigation and Filing of Criminal Complaints

Conduct of Investigation

On May 23, 2024, the PNP Southern NCR Maritime Police Station turned over 20 pieces of abandoned lumber recovered along the service road along Bgy. Cupang, Muntinlupa City. These assorted lumber, numbering 20 pieces and having identical dimensions, generated a volume of 200 board feet. Turnover of these lumber was made on May 29, 2024 in the DENR-NCR Production Nursery Compound.

The Enforcement Division, on July 31, 2024, provided technical assistance in an operation led by the PNP-Northern NCR Maritime Police Office for violation of Sec. 77 of PD No. 705 or the Revised Forestry Code, as amended, against an illegal trader of undocumented forest products and used lumber in Malabon City. During investigation, it was found that the owner has no DENR permit to cover his dealings on the matter. All in all, a total of 1,053 pieces with an aggregate volume of 3,181.33 or 19.82 cubic meters, as well as one (1) unit circular saw, were apprehended from the violator.

On August 7, 2024, another request for technical assistance was provided by this Office in a similar anti-illegal operation was executed again by the PNP-Northern NCR Maritime Police Station in a sash factory possessing unregistered lumber and operating illegally in Caloocan City. The documents relative therein were found to be incomplete. As a result, the Enforcement Division personnel apprehended these forest products, which included Mango lumber and furniture pieces. A total of 8,764 pieces of assorted forest products, corresponding to 26,919.62 board feet, were apprehended and hauled.

Lastly, on November 29, 2024, in another entrapment operation led by the above PNP office, a total of 47 pieces of Lauan lumber with a volume of 500 board feet were apprehended and seized, after finding the same without the necessary supporting documents issued by the DENR.

All cases are now the subject of administrative adjudication in accordance with the provisions of DAO No. 97-32.



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Filing of Complaints

Three (3) cases were filed for violation of PD No. 705 and RA No. 9175 (Chainsaw Act of 2002), with personnel of the DENR-NCR acting as technical witnesses. The first is against Mr. Joe Joven Dela Cruz, a resident of Malabon City, for illegally trading forest products without the necessary DENR permit. The case is now pending in the proper court in Malabon City.

Likewise, Mr. Noel Quizon was charged with the same offense, having in his possession 8,764 pieces of assorted forest products, corresponding to 26,919.62 board feet.

Support to Prosecution of Criminal Complaints

In "People vs. Bulatao" docketed as Criminal Case No. 98853 for violation of Sec. 77 of PD No. 705 as amended, relative to the apprehension and seizure of 3,503 bd.ft. Narra, Dipterocarpus Spp. & Used Yakal Lumber in Valenzuela City on September 22, 2021, a decision has been rendered by the Metropolitan Trial Court-Branch 109, Valenzuela City, convicting the accused for the crime committed.



Figures 132-134. The Criminal Case No. 98853 for violation of Sec. 77 of PD No. 705.



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Regulation of Wildlife Collection and Trade

Monitoring of Seaport and Airport

The constant monitoring of the Wildlife Traffic Monitoring Unit (WTMU) in the Ninoy Aquino International Airport (NAIA) complex and the Forest Products Monitoring Station (FPMS) in the Port of Manila were conducted for the conservation and protection of the country's wildlife flora and fauna.

Mobilization of Wildlife Monitoring Unit

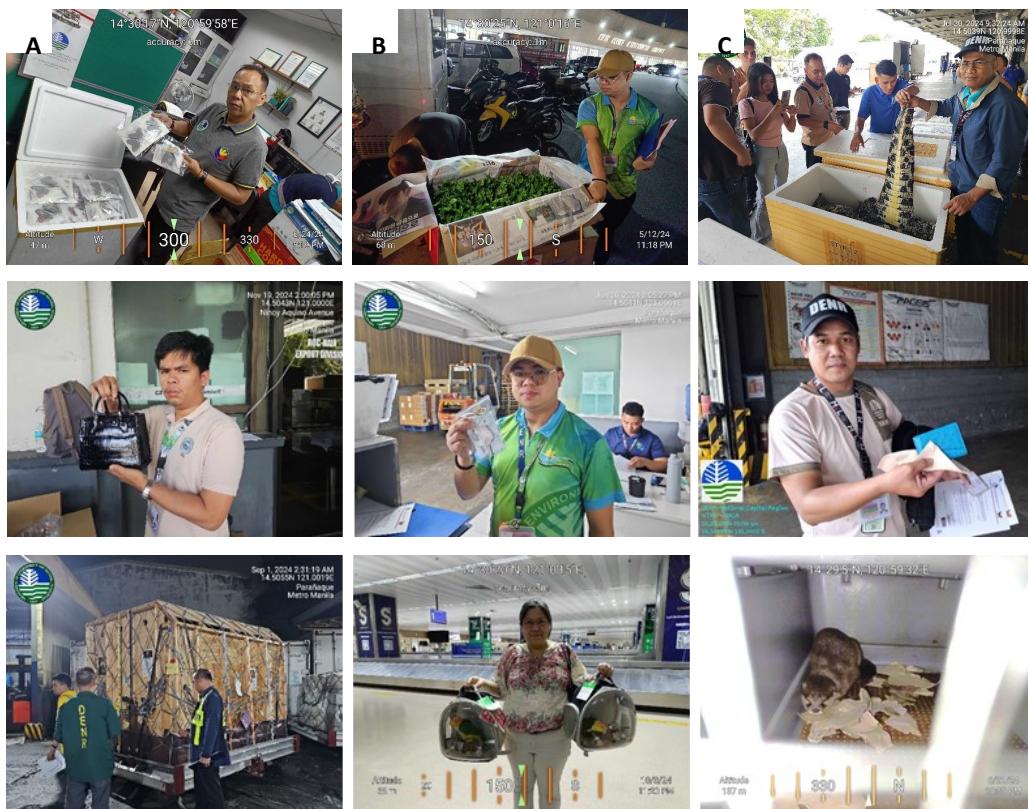
In the effort to strengthen our law enforcement capability under Republic Act 9147 and with the commitment to International Agreements as a member country of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) signed in Washington D.C. on March 3, 1973, the WTMU established at NAIA has six (6) personnel servicing the airport complex. The unit is tasked to render services on a twenty-four (24) hour basis, monitoring International and domestic flights at the passenger's arrival and departure areas and cargo flights daily at the bonded warehouses and cargo areas that cater to the importation, exportation, re-exportation and (local) transport of wildlife resources.

Validation/ Examination/ Inspection of Documents/Permits for Local/Import/Export of Wildlife and its Derivatives

The Wildlife Traffic Monitoring Unit-NAIA conducted regular validation/physical examination/inspection of documents for the local transport, export, re-export, and import of wildlife and its by-products and derivatives. A total of 2,499 permits were inspected/validated out of the total annual target of 1,750. The said activity is demand-driven and presently, more than 142.8% accomplished.



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Figures 135-143. The inspection of exported (A-C), re-exported (D-F), and imported (G-I) wildlife derivatives and by-products.

Surveillance/Monitoring of Wildlife in Transit at Airport (NAIA)

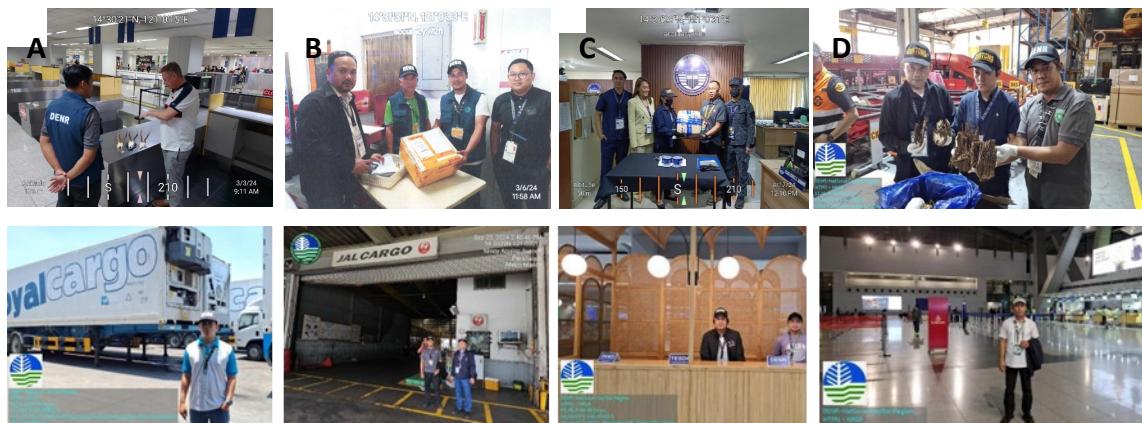
Regular surveillance and monitoring of four (4) terminals and eight (8) cargo/warehouse areas is being conducted by the Wildlife Traffic Monitoring Unit personnel in coordination with the other Law Enforcement Agencies/Composite teams such as the Bureau of Customs (BOC), Bureau of Plant Industry (BPI), Bureau of Fisheries and Aquatic Resources (BFAR), and Bureau of Animal Industry (BAI), on the possible entry of undocumented wildlife species, its by-products and derivatives. This year, nine (9) undocumented wildlife shipments were stopped by WTMU-NAIA together with BOC.



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Table 11. The list of apprehended/turned over undocumented wildlife and its derivatives for the C.Y. 2024

DATE	CARGO/TERMINAL	SPECIES/BY-PRODUCTS	QUANTITY	STATUS
03/03/2024	Terminal 3	Deer Antlers	3 pieces	In Custody of BOC
03/06/2024	DHL Cargo	Ants	79 test tubes	Turned over to BMB
04/15/2024	CMEC	Spiders	84 heads	Turned over to BMB
05/14/2024	DHL Cargo	Scorpions	36 heads	Turned over to BMB
06/06/2024	Terminal 3	Deer Antlers	2 pieces	In Custody of BOC
11/06/2024	DHL Cargo	Agarwood	5.7 kgs.	In Custody of BOC
11/12/2024	PAIR-PAGS Cargo	Exotic Bird Species	210 heads	Turned over to BMB
11/20/2024	DHL Cargo	Agarwood	6 kgs.	In Custody of BOC
12/08/2024	Terminal 1	Preserved American Alligator heads	33 pieces	In Custody of BOC



Figures 144-151. The apprehension of undocumented wildlife and its derivatives (A-D) and the surveillance and monitoring of terminals and cargo in the airport (E-H).



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Surveillance/Monitoring of Wildlife in Transit at Seaport (PPA-PICO)

In compliance with RA 9147, FPMS-PICO also functions as Wildlife Traffic Monitoring Unit at Seaport for the protection and conservation of wildlife of flora and fauna. Conducted inspection/verification of Bird's Nest Fern (*Asplenium rasta*) shipment from La Trinidad Benguet, Cordillera Administrative Region (CAR) to Hiroshima City, Japan covered with Wildlife Export Permit from DENR-CAR, Baguio City.



Figures 152-153. The inspection of Bird's Nest Fern (*Asplenium rasta*) at the Manila International Container Terminal (A) and the monitoring of Forest

Coordination with other Law Enforcement Agency

Wildlife Traffic Monitoring Unit-NAIA continuously and actively coordinated with other Law Enforcement Agencies (BOC, BPI, NNIC, Airport Police PNP, BFAR, and BAI) to effectively implement the R.A. 9147 at the Ninoy Aquino International Airport, Pasay City. Inter-agency coordination is essential for creating a cohesive and efficient wildlife law enforcement. This year, a total of twelve (12) coordination with other agencies was undertaken by the WTMU-NAIA.



Figures 154-156. The coordination of WTMU-NAIA with other law enforcement agencies.

Provision of Technical Assistance to WEOs of Other Agencies in the Implementation of R.A. 9147 (Pursuant to Interagency Meetings)

Additionally, ninety-nine (99) Wildlife Enforcement Officers (WEO) reports have been compiled and submitted. These reports were in response to requests from the city veterinarian offices of the respective Local Government Units under their jurisdiction.



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Deputation/Mobilization of Wildlife Enforcement Officers (WEO)

The Enforcement Division organized a seminar/training on Republic Act No. 9147 (Wildlife Resources Conservation and Protection Act) and its related policies on September 25-27, 2024. The event also included the deputization of eighteen (18) participants as Wildlife Enforcement Officers (WEO). This initiative aims to enhance capacity and collaboration between DENR and LGU personnel, to ensure effective wildlife conservation and protection.

Additionally, thirty-six (36) Wildlife Enforcement Officer (WEO) reports have been compiled and submitted. These reports were in response to requests from the city veterinarian office of the respective Local Government Units under their jurisdiction.



Figure 157. The deputation/mobilization of WEO of the 17 LGUs in NCR

Conduct of Surveillance/Investigation on Complaints/Report Regarding Illegal Trading, Serving, and Possession of Wildlife Species its By-Products and Derivatives

A total of twenty-eight (28) investigations were conducted vis-à-vis the annual target of twenty (20) relative to violations of Republic Act No. 9147 and the corresponding reports submitted.



Figures 158-160. The surveillance/investigation of complaints in relation to illegal wildlife activities.



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Attendance to Hearings

In support of the cases filed for violation of Sec. 27 of RA No. 9147 or the Wildlife Resources Conservation and Protection Act, two (2) hearings were attended to by personnel of this Office in various courts and related offices in Metro Manila.

Monitoring/Updating of On-going Cases

In a Decision promulgated on August 6, 2024 by the Regional Trial Court Branch 152, Pasig City, for Criminal Cases Nos. R-PSG-23-00806-CR and R-PSG-23-00806-CR for violation of Sections 27 (e & f) of RA No. 9147 or the Wildlife Resources Conservation and Protection Act, in relation to RA No. 10175 or the Cybercrime Prevention Act of 2012, Mr. Aris Lumanlan was convicted for possession and trading of one (1) Green Sea Turtle Carapace.

Likewise, in the case of People vs. Austria being tried at the Metropolitan Trial Court Branch 49 Caloocan City, the court denied the Motion for Reconsideration filed by respondent Rodrigo Austria to allow him to enter into a plea bargain agreement. According to the Court, trading and/or possession is not akin to the sale and/or possession of illegal drugs, which was made the basis for the above motion filed by the defense.

The ongoing adaptability and innovations of environmental operations and crimes against forests and wildlife further exploit the depleted natural resources, wildlife, and ecosystems within the country, particularly in the National Capital Region. As the Region through its Enforcement Division conducts regular operational activities, various issues and adversities emanate, resulting in limitations and impediments to fulfilling duties and responsibilities. These challenges include, but are not limited to, the following:

- International passengers frequently attempt to export ores and minerals without proper documentation, directly impacting the primary responsibilities of the WTMU-NAIA;
- Difficulty in monitoring and inspecting shipments of wildlife, along with their derivatives and by-products, passing through the Port of Manila; and
- A gap exists between existing laws and the actions taken to combat environmental crimes, especially concerning wildlife protection.



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MONITORING, PROCESSING AND ISSUANCE OF PERMITS/ REGISTRATION

The Forest Utilization Section (FUS) is the regulatory arm of DENR-National Capital Region in activities that involves wood products/materials importation and exportation, regulation on tree cutting/pruning/earth-balling, and chainsaw registration, importation/purchase, sell, resell, transfer, lend and manufacture. It is the responsibility of the section to oversee, direct and implement the issuance of permits for all forest utilization activities as well as review/recommend possible amendment of existing policies to improve licensing and permitting in the region.

In the processing and issuance of permits, all application were properly evaluated by the technical staff of the section based on the QEMS enrolled forms. All permits issued by the FUS are enumerated below:

- Lumber Dealer Permits;
- Wood Processing Plants (Sawmill, Re-sawmill, Plywood and Veneer Plants, Poles and Piles);
- Certificate of Registration as Importer/Dealer of wood materials;
- Permit to purchase/sell, transfer, manufacture chainsaws;
- Certificate of Registration of Chainsaw;
- Tree Cutting, Earth-balling and Pruning Permits;
- Export Authority for wood products/materials; and
- Approval of Lumber Supply Contract

WOOD-BASED PERMITS

In the issuance of Wood-Based Permits, this Office currently issues importation, exportation, and lumber permits based on the following legal basis, to wit:

- Republic Act No. 1239 Series of 1955, otherwise known as “An Act Regulating the Registration of Agents, contractors and dealers in logs, lumber and commercial poles and piles;
- DENR Memorandum Order No. 13 Series of 1986, simplifying the requirements for lumber dealer permit;
- DAO 2021-06 dated 21 April 2021 otherwise known as the “Revised Regulation Governing the Entry and Disposition of Imported Wood Products”; and
- DAO 2021-05 dated 26 May 2021 otherwise known as the “Revised Regulations Governing the Establishment and Operations of Wood Processing Plants (WPPS)”.



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For this year, a total of 304 permits were processed and issued to various stakeholders and business entities who are engaged in the business of local trading and importation of wood materials as well as the processing of veneers. These exceeded the annual target (90 permits) for CY 2024. The specific figures are shown in the table below:

Table 12. Permits Processed and Issued for CY 2024

Kind of permit	Annual Targets	Actual Accomplishment	% Accomplishment
C.R. as Dealers of Imported Wood Materials (Lumber, Logs, Plywood,	100	162	162%
C.R. as Lumber Dealer	24	30	125%
Sub-total	124	192	155%
Other issued/approved permits without targets			
Wood Processing Plant Permit	-	-	-
Export Authority	-	2	-
Approval of Lumber Supply Contracts	-	110	-
Sub-total	-	112	-
Grand Total	124	304	-

The upsurge in the issuance of C.R. as Importer/Dealers of Imported Wood Materials can be attributed to the unavailability of sources of local wood supplies and the continuing demand for residential, commercial, government projects, and other development activities/projects. Aside from the processing of Certificate of Registration as Lumber Dealer and as Importer/Dealer of Wood Materials, the Section also processed/approval application on exportation of wood materials, wood processing plant permit and approval of lumber supply contracts. All these permits are client driven.

CHAINSAW PERMITS

Based on the accomplishments and the number of applicants for CY 2024, clients are more eager on complying with existing laws and policies on chainsaw ownership, importation/purchase, sell, resell, transfer, lend and manufacture. This can be attributed to the strict enforcement of the provisions of Republic Act No. 9175, otherwise known as the "Chainsaw Act of 2002" and its Implementing Rules and Regulations (DENR Administrative Order No. 2018-09 amending Section of 2003-24, Series of 2003) as well as the various Information, Education and Communication campaigns conducted through social media and with the respective Local Government Units of NCR.



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Furthermore, the high accomplishment in the issuance of chainsaw registration, permit to sell/purchase and import are also attributed to the increasing demand in silvicultural services such as tree removal, care and maintenance; disaster risk reduction and preparedness, and tree cutting, earth-ballling and pruning operations within NCR and nearby provinces.

Table 13. Chainsaw Permits Issued for CY 2024

Kind of permits	Annual Targets	Actual Accomplishment	% Accomplishment
Permit to Import Chainsaw	10	21	210%
Certificate of Registration of Chainsaw	130	193	148%
Permit to Purchase Chainsaw	20	84	420%
Permit to Sell Chainsaw	50	108	216%
Total	210	406	193%

TREE CUTTING/EARTHBALLING AND PRUNING PERMITS

The technical personnel of FUS conducted inspection, assessment and geo-tagging of trees requested for cutting/earth-ballling and pruning permits. A total of 556 permits were issued for the year exceeding the annual target by 185.33%. High percentage in the issuance of tree cutting, earth-ballling and pruning permits were ascribed to the following:

- Rapid development in Metro Manila;
- Development projects of the government (i.e. road construction/ widening; improvement of drainage system; Subway Project; North-South Commuter Railway Project, Pasig River Rehabilitation; improvement of water sewerage treatment plant of MWSS; and other infrastructure/structural development in Metro Manila);
- Trees that compromise public safety (health condition of the trees / posing dangers to lives and properties)
- Conversion of areas into subdivisions/villages, housing projects of the government for informal settlers;
- Numerous requests for construction of residential houses/buildings and commercial buildings;



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Majority of the issued permit are due to property development followed by those that involves public safety. However, bulk of cut/earth-ball trees within Metro Manila are attributed to the DPWH and DOTr Projects that are currently being implemented. Specific figures are shown below:

Table 14. Other Permits Issued for CY 2024

Categories of Permits issued	No. of Permits Processed/
3.a Posing danger to lives and properties and for public	161
3.a.1 Within private properties	96
3.a.2 Within public land/areas	65
3.b DPWH & Other Government Projects	30
3.b.1 Priority projects under DAO 2018-16/DAO 2020-06	21
3.b.2 Other DPWH Projects	9
3.c For property development/ PLTP/STCP/STCEP	365
3.d Letter to proceed on cutting/pruning	29

In the processing and issuance of Tree Cutting, Earth-Balling and Pruning Permits this Office currently issued permits based on the following legal basis, to wit:

- The Revised DENR Manual of Authorities on Technical Matters dated May 30, 2022;
- Department Administrative Order (DAO) No. 2020-06 or the Amending Certain Provisions and Expanding the Coverage of Department Administrative Order (DAO) No. 2018-16 or the Guidelines in the Processing and Issuance of Permits on the Removal and Relocation of Trees Affected by DPWH Projects;
- DAO 2018-16 otherwise known as Guidelines in the Processing and Issuance of Permits on the Removal and Relocation of Trees Affected by DPWH Projects;
- DENR Administrative Order No. 2021-11 dated 19 May 2021 or “Guidelines in the Processing and Issuance of Permits in the Cutting, Removal and Relocation of Naturally Growing Trees;



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- DILG Memorandum Circular No. 2019-121 dated 29 July 2019 otherwise known as “Presidential Directives During the 4th State of the Nation Address of the President to Clear Rods of Illegal Structures and Construction.
- DILG Memorandum Circular No. 2020-027 dated 07 February 2020 “Continued Implementation of the Presidential Directive to Clear Roads of Illegal Obstructions (Road Clearing 2.0) and DILG Memorandum Circular No. 2020-145 dated 27 October 2020 otherwise known as Presidential Directives on Continuation of Road Clearing;
- Republic Act No. 11361 otherwise known as the “Anti-Obstruction of Power Lines Act of 2019”;
- DEBARMENT Technical Bulleting No. 14 “Guidelines on Tree Cutting, Trimming and Pruning within areas covered by 69 kV to 500 kV Transmission Line Facilities/Projects;
- Article No. 430, 483, 679 and 680 of Republic Act No. 386 or An Act to Ordain and Institute the Civil Code of the Philippines;
- DENR Memorandum Order No. 2012-02 otherwise known as the “Uniform Replacement Ratio for Cut Relocated Tree/s”; and
- FMB Memorandum dated 22 September 2023 stated that pruning of trees within public lands shall be authorized by DENR, whereas, pruning of trees within subdivisions shall be authorized by the owner of the said subdivision, pursuant to Section 3 of PD No. 953.

ONLINE APPLICATION OF PERMITS

On 18 October 2024, on-line application for tree cutting, pruning and earth-balling permit was implemented by the Section. As of December 23, 2024 a total of 172 online application was properly evaluated. After careful evaluation of uploaded/submitted documents, the evaluator approved the application and notify the applicant to proceed on payment of oath fee, then the said application was forwarded to technical forester (inspector) for ocular inspection and further verification of submitted documents.



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For this year, the Forest Utilization Section conducted learning activity entitled, "Strengthening Field Operations: Implementation of The Tree Cutting Online Permitting System" designed for DENR-NCR personnel last October 14-16, 2024, at the 4th Floor Conference Room DENR-NCR, East Avenue, Diliman, Quezon City. The learning event aims to strengthens the participant in the following activities, to wit:

- Accurately evaluate and receive applications for Tree Cutting/Balling/Pruning permits;
- Recognize applicable Environmental Laws and other policies related to tree cutting/balling/pruning;
- Understand and incorporate RA 6713 into day-to-day tasks;
- Properly conduct tree assessment and site inspection;
- Create and report geospatial data; and
- Submit cohesive and concise inspection reports and draft permits

The three-day Workshop on the Online Tree Cutting Permit System successfully achieved its objectives of capacitating DENR-NCR personnel with the necessary knowledge and skills to effectively implement and utilize the new online platform/website. The comprehensive training program covered essential aspects ranging from regulatory policies and ethical standards to hands-on system operation, ensuring participants gained both theoretical understanding and practical experience. The strategic approach of combining policy discussions, legal frameworks, and technical training, coupled with the division-based grouping during hands-on sessions, fostered an effective learning environment that addressed specific departmental needs.

Through this workshop, DENR-NCR has taken a significant step towards modernizing its services through e-Governance, demonstrating its commitment to improving efficiency, transparency, and accessibility in processing tree cutting permits. The enthusiastic participation and positive feedback from attendees indicate a promising transition to this digital system, which will ultimately benefit both the agency and its clients by streamlining operations while maintaining environmental protection standards.



SOIL CONSERVATION

1. Sustainable Operations of the River Basin Control Office (RBCO)

Green Space / River System Assessment and Urban Biodiversity Monitoring

The Marikina River Basin (MRB), a vital waterway covering 69,826.60 hectares, is divided into the Upper Marikina Watershed Protected Landscape (jurisdiction of DENR Region IV-A) and the Lower Marikina Watershed (jurisdiction of DENR-NCR). The latter encompasses seven cities and one municipality in Metro Manila and serves as the basin's outlet, draining into Manila Bay.

The La Mesa Watershed Reservation, a 2,659-hectare area in northern Metro Manila, is the region's sole major watershed and supplies potable water to the metropolis through the La Mesa Dam.

To assess the condition of these watersheds and inform decision-making, DENR-NCR conducted green space/river system assessments and urban biodiversity monitoring during the dry (May 2023) and wet (October 2023) seasons. Permanent Monitoring Sites (PMS) established in 2021 were utilized, with adjustments made in 2022 due to ongoing dredging projects.

The collected data, including biophysical and socio-economic information, will be integrated into the River Basin Integrated Information System (RB-IIMS). This database will provide valuable insights into the watershed's health and facilitate informed decision-making.



Figure 161. Green Space / River Assessment and Urban Biodiversity Monitoring Team

Participation in RB-Water Related Activities

Green Assessment Framework Training and Workshop

To enhance the capacity of its personnel in assessing disaster impacts on urban ecosystems and developing effective recovery plans, the Production Forest Management Section (PFMS) participated in four (4) stages of the Green Assessment Framework training workshop:

- Stage 2b: Use of ArcGIS Pro in all stages
- Stage 2c: Use of Earthblox in all stages
- Stage 3: Green Recovery Plan



Figure 162. Green Assessment Framework Stage 4: Green Assessment Recovery Framework (GARF)

Participation in the Regional River Basin Coordinating Office Mid-Year Assessment

DENR-NCR's River Basin Control Office (RBCO) participated in the Mid-Year Assessment and Planning Workshop held in July 2024 via Zoom. The workshop brought together regional focal persons, RBCO Executive Director, and technical staff to:

- Assess the implementation status of the river basin master plan
- Evaluate the operationalization of river basin organizations
- Review the mid-year accomplishments against the CY 2024 physical and financial plan
- Identify and address current issues and challenges
- Discuss proposed policies and legal instruments to strengthen RBCO's functions
- Assess the training needs of regional focal persons on river basin management
- Clarify overlapping functions between the Forest Management Bureau-Water and Ecosystems Management Sector (FMB-WEMS) and RBCO

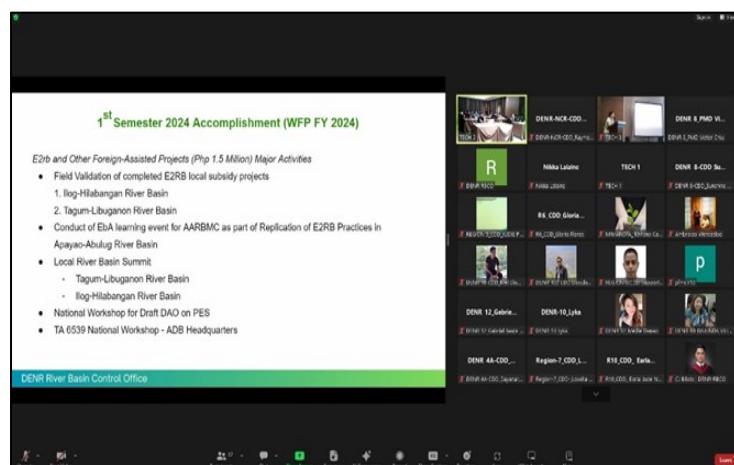


Figure 163. RBCO Mid-Year Assessment via Zoom App

Participation in the Regional Watershed Focal Points Meeting

To ensure alignment with the strategies and accomplishments of the Watershed Ecosystems Management Section (WEMS) of the Forest Management Bureau (FMB), DENR-NCR's River Basin Control Office (RBCO) participated in the Regional Watershed Focal Points Meeting held on November 26-27, 2024. This meeting provided a platform for watershed focal points and alternate focal points to share their accomplishments and set targets for CY 2025. By participating in this event, RBCO strengthened its collaboration with FMB-WEMS and contributed to the effective management of the region's watersheds.



Figure 164. Watershed Focal Points Meeting

Participation in Capacity Building Activities

To ensure that its field personnel and supervisors are equipped with the latest knowledge and skills, DENR-NCR's River Basin Control Office (RBCO) participated in two national conferences held outside the National Capital Region.

Forest Carbon 101: Orientation on the Role of the Forestry Sector in the Paris Agreement

To address the challenges of climate change and urbanization, DENR-NCR recognizes the importance of urban forestry in carbon sequestration and mitigation. By participating in this orientation, RBCO aims to:



- Enhance its capacity to mitigate the impacts of climate change
- Increase the carbon sequestration potential of urban forests
- Promote sustainable development in the region

2.2.3.2 National Convention of the Society of Filipino Foresters

To keep its foresters updated on the latest trends, policies, and issues in the Philippine forestry sector, DENR-NCR's River Basin Control Office (RBCO) sent all its licensed foresters to the National Convention of the Society of Filipino Foresters, held in Cagayan de Oro, Philippines. This event provided a valuable opportunity for professional development and networking.



Figure 165. DENR NCR Participants in the National Conference of Foresters

Information, Education, and Communication (IEC) Activities

To raise awareness and engage local communities and government units, DENR-NCR's River Basin Control Office (RBCO) conducted various IEC activities. These activities highlighted the latest programs, projects, and initiatives of DENR-NCR, encouraging participation and collaboration in environmental conservation efforts. By sharing knowledge and inspiring action, RBCO aims to build a strong partnership with the community in protecting and preserving the region's water resources.



Figure 166. RBCO IEC Activity in Brgy.
Ugong, Pasig City



Figure 167. RBCO IEC Activity in Jesus Dela Peña High School

Community-Based Employment Program (CBEP) under NGP

In 2024, DENR-NCR generated three (3) jobs through the Community-Based Employment Program (CBEP) under the National Greening Program (NGP). A total budget of Php 540,129 was allocated for these positions.



Figure 168. RBCO Farm Workers at the Nursery



Figure 169. RBCO Farm Workers on the Field

2. Manila Bay Rehabilitation

In line with Administrative Order No. 16, Series of 2019, the DENR-NCR established the PFMS-Manila Bay Unit to focus on habitat restoration, riverbank rehabilitation, and ecosystem protection along waterways in Metro Manila.

Protection and Sustainment

Coordination and Site Assessment

The PFMS-Manila Bay Unit regularly coordinates with LGUs, barangays, and Metropolitan Environmental Offices (MEOs) to identify potential greening sites along waterways. In 2024, the unit assessed 24 sites covering 20,029 m², identifying 14 suitable for direct planting of bamboo and indigenous trees, and 2 suitable for Linear Park Enhancement Projects (totaling approximately 15,913 m²). Site assessments considered factors such as existing vegetation, site condition, property status, flood risk, and other relevant factors.



Figure 170. Coordination with concerned barangays regarding site assessment, bamboo planting, and linear park Enhancement Project.

Rehabilitation of Streambanks through Tree Growing Activities

Based on the site assessments, the PFMS-Manila Bay Unit conducted eight (8) tree planting activities in suitable areas, covering a total of 5,732 m². A total of 890 seedlings of bamboo and other indigenous species were planted during this period.



Figure 171. Bamboo and indigenous tree growing activity conducted from July to November CY 2024

Implementation of Rehabilitation/Development Plan through Linear Park Enhancement Project

In 2024, the PFMS-Manila Bay Unit implemented the Linear Park Enhancement Project at two sites:

- Tullahan River, Brgy. Tinajeros, Malabon City (Phase III):** Implemented by L.R. Mayuga Construction Services.
- Ilang-ilang Creek, Brgy. North Fairview, Quezon City (Phase II):** Implemented by Alphin Trading and Construction.

Site inspections were conducted to assess the compliance of both projects with the approved greening design plans. The inspections confirmed that both sites adhered to the approved plans.



Figure 172. Site inspection conducted on the linear park enhancement project along Tullahan River in Brgy. Tinajeros, Malabon City established on CY 2024



Figure 173. Site inspection conducted on the linear park enhancement project along Ilang-ilang Creek in Brgy. North Fairview, Quezon City established on CY 2024



Figure 174. Rendered perspective greening enhancement design along Tullahan River in Brgy. Tinajeros, Malabon City for the Linear Park Enhancement Project CY 2024 (Phase III).

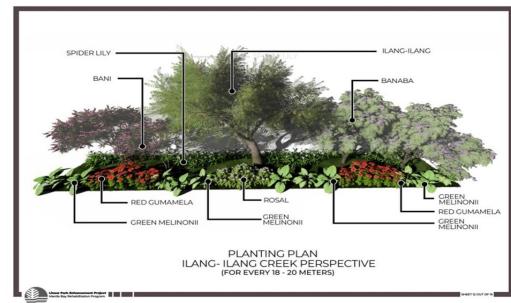


Figure 175. Rendered perspective greening enhancement design along Ilang-ilang Creek in Brgy. North Fairview, Quezon City for the Linear Park Enhancement Project CY 2024 (Phase II).

Capacity Building on Linear Park Maintenance and Protection

To ensure the long-term sustainability of the Linear Park Enhancement Projects, capacity-building activities were conducted for LGUs and community stakeholders.

- **L.R. Mayuga Construction Services** organized an event at the Quezon City Memorial Circle on April 8, 2024, attended by representatives from MBSCMO, MEO-North, CENRO-Malabon City, Barangay Tinajeros, and Estero Green Rangers.
- **Alphin Trading and Construction** organized a similar event at Ayala Mall Fairview Terraces on June 4, 2024, attended by representatives from MBSCMO, MEO-East, Parks Development and Administrative Department-Quezon City, Barangay North Fairview, and Estero Green Rangers.

These capacity-building sessions provided essential knowledge and skills for the maintenance and pro-



Figure 176. Group photo during the first part of the capacity building on April 08, 2024, at Quezon Memorial Circle, Quezon City.



Figure 177. Group photo after the capacity building on June 04, 2024 at Brgy. Greater Lagro, Quezon City

Sustaining LGU Engagement through MOAs

To ensure the long-term protection and maintenance of the linear parks, DENR-NCR signed Memoranda of Agreement (MOAs) with the relevant LGUs. On September 6, 2024, a ceremonial signing was held to formalize the partnership and outline the roles and responsibilities of both parties.

Key Highlights of the MOA Signing:

New Linear Parks: The establishment of two new linear parks:

- Phase III of the Tullahan River linear park in Brgy. Tinajeros, Malabon City (200 sq m)
- Phase II of the Ilang-ilang Creek linear park in Brgy. North Fairview, Quezon City (200 sq m)

Renewal of Existing MOAs: Renewal of MOAs for linear parks in:

- Brgy. Maysilo, Malabon City (established in 2021)
- Brgy. 8, Tondo, Manila (established in 2021)
- Brgy. Sta. Lucia, Pasig City (established in 2021)



Figure 178. Signing of MOA in the part of DENR-NCR



Figure 179. Signing of MOA in the part of the LGU from Brgy. North Fairview, Quezon City



Figure 180. Photo opportunity during the conduct of ceremonial MOA Signing on September 6, 2024, with the concerned LGU of Brgy. North Fairview, Quezon City



Figure 181. Retrieval of signed MOA from Brgy. Tinajeros, Malabon City.

Monitoring of Established Linear Parks (CY 2021-2024)

Since 2021, DENR-NCR has been conducting monthly monitoring of 15 established linear parks in Metro Manila to assess their condition. The monitoring focuses on factors like plant survival rate, with an ideal rate of above 85% as outlined in the MOAs with LGUs.

Current Status:

- **10 Linear Parks:** In good condition with an average survival rate above 85%.
- **5 Linear Parks:** Below the ideal survival rate.

Challenges and Actions:

- **DPWH-NMDEO Projects:** Linear parks along Brgy. 8, Tondo, Manila and Balanti Creek were impacted by DPWH-NMDEO projects.
- **Brgy. 8, Tondo, Manila:** Monitoring continues to ensure full restoration post-DPWH project completion.
- **Balanti Creek:** Restoration was completed in March 2024, and the unit is providing technical support to improve survival rates.

To enhance the maintenance and protection of these linear parks, four Estero Green Rangers (EGRs) are deployed to oversee the care of four established linear parks.

As part of the monitoring activity, close coordination with concerned barangays regarding the linear parks is also being undertaken to ensure that the roles and responsibilities outlined in the MOAs are being fulfilled.



Figure 182. Monitoring of established linear park enhancement project from CY 2021-2024

Build Back Better Task Force (BBBTF) Project

Monitoring Activities

In addition to the target-based monitoring under the Work and Financial Plan (WFP), the PFMS-Manila Bay Unit conducts quarterly monitoring of ten (10) planted areas under the BBBTF Project.



Figure 183. Monitoring of bamboo planted area in support to Build Back Better Task Force



ENHANCED BIODIVERSITY CONSERVATION

CAVE MANAGEMENT PLAN IMPLEMENTATION

Apugan Cave Monitoring

In compliance with Republic Act No. 9072 (National Caves Resources Management and Protection Act of 2001) and DENR Administrative Order No. 2003-29, the PAMBCS conducted quarterly monitoring activities at Apugan Cave throughout 2024. These assessments aimed to evaluate the cave's condition, identify potential threats, and implement necessary conservation measures.

Monitoring Team and Activities

A dedicated monitoring team, comprising PAMBCS staff, Production Forest and Management Section (PFMS) personnel, and representatives from the Metropolitan Waterworks and Sewerage System (MWSS) Forest Patrols, carried out the quarterly monitoring. This collaborative approach ensured transparency and public participation in cave management.

Table 15. Monitoring team's observations during the year

	Observations
1st Quarter	Eleven bats, one whip spider, and one huntsman spider were observed. No new human disturbances were detected.
2nd Quarter	A cave tour coincided with the monitoring activity. A few bats and spiders were seen, and the stalactite formations remained in good condition.
3rd Quarter	Twenty bats and one whip spider were observed. A cave tour was conducted for Philippine Wildlife Rangers, Environmental Enforcers, and Quezon City Local Government Unit personnel.
4th Quarter	MWSS cleared leaning bamboo near the cave entrance. Two bats, one whip spider, and one huntsman spider were observed. The cave formations remained intact, with no new signs of human activity.



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Additional Considerations

To further strengthen cave management efforts, the following recommendations are proposed:

- **Enhanced Monitoring:** Increase the frequency of monitoring to capture seasonal variations and potential threats.
- **Public Awareness:** Conduct regular public awareness campaigns to educate the public about the importance of cave conservation and responsible visitation.
- **Collaboration:** Strengthen partnerships with local government units and community organizations to promote sustainable cave tourism and conservation practices.
- **Data Management:** Establish a comprehensive database to track long-term trends in cave ecology and visitor behavior.

By implementing these recommendations, the PAMBCS can effectively protect and preserve Apugan Cave for future generations

Regional Cave Committee (RCC) Meetings

The Regional Office convened two RCC meetings during 2024, held on May 31 and December 6, respectively. Key discussions and agreements pertaining to Apugan Cave included:

- **Work Plan Implementation:** Review and discussion of the approved Work and Financial Plan (WFP) for 2024.
- **Long-Term Planning:** Initial review of the 3-year Action Plan for Apugan Cave.
- **Ecotourism Development:** Drafting of Apugan Cave's Ecotourism Plan.
- **Scientific Research:** Support for cave studies conducted by the Engineering Research and Development Bureau (ERDB) and academic institutions.
- **Public Awareness:** Implementation of Communication, Education, and Public Awareness (CEPA) activities, such as lectures and cave site visits.
- **Trail Enhancement:** Collaboration with NGOs and academic institutions for trail enrichment activities.
- **Regular Monitoring:** Continued monthly monitoring of Apugan Cave in partnership with MWSS Forest Patrols.
- **Infrastructure Development:** Review of proposed signage installation by the Metropolitan Manila Development Authority (MMDA).
- **Future Planning:** Discussion of potential activities for 2025.



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Apugan Cave CEPA Activities

To promote the conservation and sustainable management of Apugan Cave, the PAMBCS organized 12 cave visits and 12 cave lectures throughout 2024.

Cave Visits

- School of Saint Anthony (January 17)
- QCPD Corps (February 16)
- Technological University of the Philippines & Philippine Wildlife Rangers and Environmental Enforcers (March 15)
- Quirino Highschool (April 5)
- DENR-NCR Conservation and Development Division (May 28)
- DENR NCR- Regional Strategic Communication and Initiatives Group and Local Government Unit of Quezon City (June 11)
- Participants of the Regional Karst Forum (July 31)
- Our Lady of Fatima University – Biology Students (August 16)
- Metro Manila Development Authority (October 31)
- DENR-NCR MEO East (November 15)
- Participants of DENR NCR- Regional Strategic Communication and Initiatives Group and Local Government Unit of Quezon City Youth Tour (November 22)
- University of Sto. Tomas (November 27)



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Cave Lectures

- School of Saint Anthony (January 17)
- QCPD Corps (February 16)
- Participants of MBSCMO River Management Committee (March 12-14)
- Quirino Highschool (April 5)
- DENR-NCR Conservation and Development Division (May 28)
- Local Government Unit of Quezon City (June 10)
- Participants of the Regional Karst Forum (July 31)
- DENR-NCR Enforcement Division (September 27)
- Metro Manila Development Authority (October 31)
- DENR-NCR MEO East (November 15)
- Participants of DENR NCR- Regional Strategic Communication and Initiatives Group and Local Government Unit of Quezon City Youth Tour (November 22)
- University of Sto. Tomas (November 27)

In addition to these activities, this office developed an Apugan Cave brochure, which was presented during the second RCC meeting. These CEPA initiatives play a vital role in raising public awareness, promoting responsible cave exploration, and safeguarding the delicate ecosystem of Apugan Cave.

Community Tour Guide Training for Apugan Cave

In collaboration with the Department of Tourism-National Capital Region (DOT-NCR), the office organized a comprehensive 7-day community tour guide training program at the Ninoy Aquino Park and Wildlife Center and La Mesa Watershed Reservation in Quezon City from April 15-19 and 22-23, 2024.

This training initiative aimed to develop the skills and knowledge of potential tour guides for Apugan Cave, thereby contributing to the sustainable tourism development of the area. Participants included representatives from various sections of the DENR-NCR Conservation and Development Division (CDD) and the Climate Change and Environmental Sustainability Department, Tourism Office, and Disaster Risk Reduction Management Office of the Quezon City government.



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The training curriculum encompassed a range of relevant topics:

- Filipino Brand of Service Excellence
- Practical Philippine Geography
- Environmental Laws and Relevant Regulations
- First Aid
- Cave Archaeology and Paleontology
- Duties and Responsibilities of a Tour Guide
- Practical Guiding Techniques
- Tour Script Preparation and Presentation Techniques
- Commentary Development

URBAN BIODIVERSITY PROGRAM

The rapid urbanization of Metro Manila, the most urbanized region in the Philippines, has led to significant loss of green spaces and biodiversity. These green spaces, vital habitats for diverse life forms, are increasingly threatened by development pressures, pollution, habitat fragmentation, and climate change.

To address these challenges and promote sustainable urban development, the Urban Biodiversity Program aims to create "green, resilient, and biodiversity-friendly cities." This initiative aligns with international frameworks such as the Convention on Biological Diversity (CBD), the Sustainable Development Goals (SDGs), the Philippine Development Plan (PDP), and the Philippine Biodiversity Strategy and Action Plan (PBSAP).

The DENR –NCR, in line with this vision, has implemented various activities to protect and conserve urban biodiversity. By fostering a harmonious balance between urbanization and nature conservation, the program seeks to enhance the overall well-being of urban communities and preserve the country's natural heritage.

Formulation of the City Biodiversity Index (CBI) for Manila

In alignment with the Philippine Biodiversity Strategy and Action Plan (PBSAP), the Urban Biodiversity Program targets five key cities: Caloocan, Manila, Quezon City, Davao, and Cebu. A core component of this initiative is the development of a City Biodiversity Index (CBI) for each city. The CBI serves as a valuable tool to assess the current state of urban biodiversity, identify critical conservation needs, and inform the development of tailored Urban Biodiversity Management Plans (UBMPs).

In 2023, this office focused on developing the CBI for Manila City. This involved a collaborative effort with various stakeholders, including the city government of Manila, to gather baseline data on biodiversity. Key activities included:

- Biodiversity Profiling:** Conducting site assessments to identify and characterize native biodiversity.
- Ecosystem Services Assessment:** Evaluating the ecosystem services provided by Manila's biodiversity.
- Governance and Management Framework Assessment:** Analyzing existing governance and management frameworks through stakeholder consultations.

Key Findings from the CBI of Manila City

Natural Areas in Manila

The CBI identified 178.72 hectares of natural areas within Manila City, accounting for 4.26% of the total land area. These natural areas, which are less disturbed and more diverse than human-dominated landscapes, include:

- Arroceros Forest Park (2.2 hectares)
- Isla de Provisor (2.2 hectares)
- Pasig River (113.32 hectares)
- San Juan River (14.57 hectares)
- Baseco Lagoon (2.50 hectares)

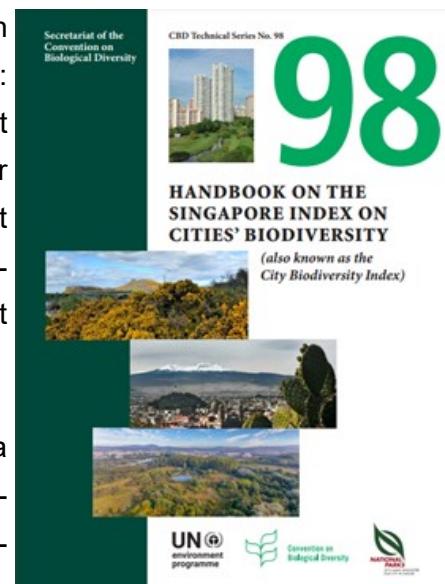


Figure 184. Handbook on the Singapore Index on Cities' Biodiversity

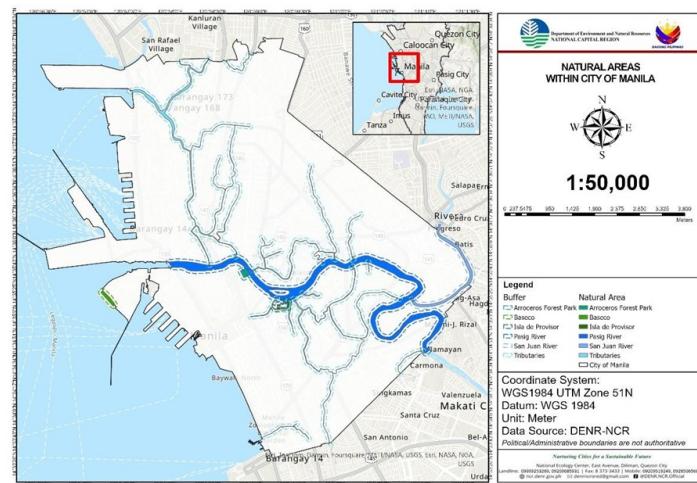


Figure 185. Map of Natural Areas within City of Manila



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Presence of Introduced, Exotic, and Invasive Alien Species

The assessment revealed the presence of several introduced and exotic plant species in Manila's greenspaces, including Mahogany (*Swietennia macrophylla*), Rain tree (*Albizia saman*), Auri (*Acacia auriculiformis*), African Tulip (*Spathodea campanulata*), Bo tree (*Ficus religiosa*), and Fire tree (*Delonix regia*). These species, likely introduced during the colonial period or subsequent reforestation efforts, can outcompete native species and disrupt local ecosystems.



Figure 186. Mahogany (*Swietennia macrophylla*)

In terms of invasive fauna, the Eurasian Tree Sparrow (*Passer montanus*) and Feral Pigeon (*Columba livia*) were observed in built-up areas. While a comprehensive assessment of other taxonomic groups was not conducted, it is essential to address the impact of invasive species through targeted management strategies, such as promoting the use of native plant species in future planting initiatives and implementing measures to control invasive bird populations.



Figure 187. Eurasian Tree Sparrow (*Passer montanus*)

Canopy Cover and Urban Green Space

Satellite imagery analysis indicated a total canopy cover of 364.63 hectares, representing 8.69% of Manila's land area. This limited canopy cover underscores the city's high level of urbanization, with infrastructure, buildings, and paved surfaces dominating the landscape.

To meet the World Health Organization's recommended open space per capita of 9 square meters, innovative approaches such as vertical gardening, rooftop gardens, and urban agriculture can be implemented. These strategies can help increase green space availability and provide numerous benefits, including:

- **Improved Air Quality:** Trees absorb carbon dioxide and release oxygen, mitigating air pollution and the urban heat island effect.
- **Noise Reduction:** Green spaces can significantly reduce noise pollution, creating more peaceful urban environments.
- **Enhanced Mental and Physical Health:** Spending time in nature has been linked to reduced stress, anxiety, and depression, as well as improved physical health.



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- **Flood Mitigation and Control:** Trees and vegetation can help absorb rainwater, reducing runoff and minimizing flood risks.

Institutional Capacity

Manila City has six primary departments responsible for the management and maintenance of urban greenspaces and biodiversity:

- Parks Development Office (PDO)
- Department of Public Services (DPS)
- Public Recreations Bureau (PRB)
- Department of Engineering and Public Works (DEPW)
- Disaster Risk and Reduction and Management Office (DRRMO)
- City Planning and Development Office (CPDO)

Approximately PhP 2,057,846,000.00, or 9% of the total city budget, is allocated to these departments to implement various programs and activities. These departments have formulated and implemented numerous ordinances, resolutions, and city plans to promote urban biodiversity and green space conservation.

A notable achievement is the proclamation of Arroceros Forest Park as a permanent forest park through City Ordinance No. 8607. This landmark decision ensures the long-term protection and conservation of the park. Other protected areas in Manila include Rizal Park, Paco Park, and the Pasig River.

- Cosmopoint International Institute of Technology (CIIT)
- Clean Air Asia

Through these partnerships, Manila City has been able to expand the reach of its biodiversity programs, mobilize resources, and implement innovative solutions for sustainable urban development.



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Partnerships and Collaborations

To enhance the effectiveness of its biodiversity initiatives, Manila City has forged partnerships with various organizations, both locally and internationally. These collaborations have enabled the city to leverage resources, expertise, and networks to address complex urban challenges.

Key partnerships this year include:

- Landbank
- Asian Terminal
- Philippine Native Plants Conservation Society Inc. (PNPCSI)



Figure 188. Partnerships and Collaborations

Rapid Inventory of Greenspaces in Caloocan City

In fiscal year 2024, the Protected Areas and Wildlife Bureau - Metro Manila (PAMBCS) initiated a rapid inventory of greenspaces in Caloocan City. This endeavor, conducted with a limited budget, was a preparatory step towards a comprehensive City Biodiversity Index (CBI) assessment scheduled for the following year.

Six greenspaces within Caloocan City were identified and assessed (Table 2). These sites were recommended by the city government for in-depth profiling and biodiversity assessment in the subsequent year. To identify additional potential greenspaces, the PAMBCS will collaborate with the Philippine Forest Management Bureau (PFMS) to utilize Geographic Information Systems (GIS) and conduct ground validation.

The findings from these assessments will be instrumental in formulating the CBI and Urban Biodiversity Management Plan for Caloocan City. These plans will identify significant areas for preservation and conservation, ultimately enhancing the city's livability.



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Table 16. Rapidly Assessed Greenspaces in Caloocan City

Location	Coordinates	Date of Assessment
Caloocan Sports Complex	14°45'4"N, 121°1'15"E	June 24, 2024
Nova Hills Subdivision	14°45'39"N, 121°1'26"E	July 16, 2024
Rainbow Village Subdivision	14°44'56"N, 121°2'7"E	July 16, 2024
Buena Park	14°39'39"N, 120°58'34"E	April 30, 2024
Caloocan Old City Hall	14°39'4"N, 120°58'19"E	April 30, 2024
Caloocan New City Hall	14°38'52"N, 120°59'25"E	April 30, 2024

Updating of Previously Profiled and Assessed Greenspaces

To monitor changes in landscape and biodiversity over time, the PAMBCS reassessed the Las Piñas-Parañaque Wetland Park (LPPWP) and the Lower Marikina Watershed. These assessments adhered to the guidelines outlined in BMB Technical Bulletin No. 2018-02.

Las Piñas-Parañaque Wetland Park (LPPWP)

While notable changes, such as infrastructure development and temporary construction activities, were observed, the overall flora and fauna composition remained relatively consistent. A total of 20 tree species and 25 avian species were recorded during the reassessment.



Figure 189. Reassessment of Flora and Fauna in LPPWP

Lower Marikina Watershed

Due to ongoing river channel improvement projects, a comprehensive biodiversity assessment could not be conducted. However, visible changes, including soil disturbance and tree removal, were evident. Further investigation is necessary to determine the legality of these activities.



Additionally, the PAMBCS collaborated with the Regional Strategic Communication and Initiatives Group (RSCIG) to produce online CEPA materials, titled "Saribu-ey," which were disseminated on the region's Facebook page.

Figure 190. Lower Marikina Watershed



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Conservation Education and Public Awareness (CEPA) Activities

This office conducted a series of CEPA activities, both in-person and online, to raise awareness about the importance of biodiversity conservation. A total of six lectures were delivered to various institutions and organizations, including:

Government Agencies:

- DENR-NCR – Manila Bay River Management Committee
- Philippine Wildlife Rangers and Environmental Enforcers

Academic Institutions:

- Technological University of the Philippines

Correctional Facilities:

- Bureau of Jail Management and Penology (BJMP)

Local Government Units (LGUs):

- LGU Makati
- LGU Pasig

Additionally, the PAMBCS collaborated with the Regional Strategic Communication and Initiatives Group (RSCIG) to produce online CEPA materials, titled "Saribu-ey," which were disseminated on the region's Facebook page as Reels. These materials focused on urban biodiversity topics such as:

- Wild Birds found in Urban Areas (September 13, 2024)
- Threats Faced by Urban Wild Birds in Coastal Areas (September 20, 2024)
- Heritage Trees in Metro Manila (September 27, 2024)

Regional Ecotourism Committee - NCR

The Regional Ecotourism Committee (REC-NCR) is an inter-agency body mandated to implement policies, guidelines, and programs on ecotourism in Metro Manila, as per Executive Order No. 111. The committee is composed of representatives from the following organizations:

- DENR-NCR
- Department of Tourism-NCR (DOT-NCR)
- National Economic Development Authority-Philippine Council for Sustainable Development (NEDA-PCSD)



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- Philippine Travel Agencies Association (PTAA)
- Wild Bird Club of the Philippines
- Philippine Tour Operators Association (Philtoa)
- Concerned Local Government Units of Metro Manila

In 2024, the REC-NCR conducted two meetings on June 27 and December 16 to finalize the identification of ecotourism sites within Metro Manila and to transition the committee's chairmanship to DOT-NCR.

The following potential ecotourism sites were identified for further validation:

- Las Piñas-Parañaque Wetland Park (LPPWP)
- Jamboree Lake
- Tagalag Fishing Village
- La Mesa Eco Park
- Apugan Cave

HERITAGE TREE PROGRAM

The Heritage Tree Program, a pioneering initiative launched by DENR-NCR through Memorandum Order No. 1, Series of 2019, aims to recognize and protect trees that possess significant ecological, historical, and cultural value. These trees, characterized by their age, rarity, native or endemic status, and a minimum girth of 100 cm (measured 0.5 meters above ground), are nominated by local communities.

Once selected, these Heritage Trees receive specialized care and protection from DENR-NCR's forestry team. This ensures their continued health and preservation for future generations.

Heritage Tree Proclamations in 2024

In 2024, the PAMBCS facilitated the proclamation of two new Heritage Trees:

1. **Balete Tree (Ficus sp.) in Maybunga Rainforest Park, Pasig City:** This approximately 70-year-old Balete Tree holds significant historical value, having witnessed the city's development under eight different mayors. It was officially declared a Heritage Tree on June 28, 2024.



Figure 191. Balete Tree (Ficus sp.) in Maybunga Rainforest Park, Pasig City



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2. Balete Tree in Bonifacio Global City, Taguig City: This 80-year-old Balete Tree is believed to have survived the Battle of Manila in 1944. Its proclamation as a Heritage Tree on November 28, 2024, marks Taguig City's first such recognition.

With these additions, the total number of Heritage Trees in Metro Manila now stands at forty-three (43).



Figure 192. Balete Tree in Bonifacio Global City, Taguig City

Monitoring of Proclaimed Heritage Trees in Metro Manila

To ensure the continued health and preservation of proclaimed Heritage Trees, the PAMBCS conducted monitoring activities throughout 2024. A total of 41 Heritage Trees were inspected, with the following observations.

By regularly monitoring these Heritage Trees, the PAMBCS aims to ensure their long-term survival and continue to promote public awareness about the importance of urban biodiversity and heritage conservation.

Table 17. Proclaimed Heritage Trees in Metro Manila

NO.	SPECIES	PLACE	DATE DECLARED	DATE MONITORED	REMARKS
1	Kamagong (<i>Diospyrus discolor</i>)	Veterans Memorial Medical Center, Quezon City	June 25, 2009	March 4, 2024	The tree is in good condition
2	Acacia (<i>Samanea saman</i>)	St. Theresa's College, Quezon city	December 13, 2010	March 19, 2024	The tree is in good condition. Replacement of marker recommended.
3	Duhat (<i>Syzygium cumini</i>)	Kaligayahan Elementary School, Quezon City	June 12, 2010	February 13, 2024	The tree is in good condition
4	Balete (<i>Ficus sp.</i>)	Malacañang Palace, Manila	May 31, 2011	September 11, 2024	The PAMBCS has yet to enter the area due to strict entry access
5	Narra (<i>Pterocarpus indicus</i>)	Fe Del Mundo Medical Center (Children's Hospital), Quezon City	February 11, 2011	July 17, 2024	The tree is in good condition



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NO.	SPECIES	PLACE	DATE DECLARED	DATE MONITORED	REMARKS
6	Baliteng – baging (<i>Ficus benghalensis</i>)	Lichauco Heritage House, Sta. Ana, Manila	June 5, 2012	May 21, 2024	The tree is in good condition per the caretaker, but the property is temporarily closed due to family matters. PAMBCS will coordinate with the caretaker once resolved.
7	Sampaloc (<i>Tamarindus indica</i>)	Brgy. Amihan, Proj. 3, Quezon City	April 19, 2013	March 4, 2024	The tree is in good condition
8	Indian Rubber Tree (<i>Ficus elastica</i>)	San Francisco High School, Quezon City	September 28, 2013	March 4, 2024	The tree is in good condition
9	Duhat (<i>Syzygium cumini</i>)	Star Woods Manufacturing, Inc., Karuhatan, Valenzuela City	December 20, 2013	September 24, 2024	The tree is in good condition
10	Dita Tree (<i>Alstonia scholaris</i>)	University of the Philippines, Manila	January 22, 2014	September 6, 2024	The tree is in good condition. Ongoing construction near the tree
11	Botong (<i>Barringtonia asiatica</i>)	Philippine Women University, Jose Abad Santos Memorial School, Quezon City	February 18, 2014	July 17, 2024	The site is now owned by STI College. The Office has yet to grant the PAMBCS permission to inspect the tree.
12	Acacia (<i>Samanea saman</i>)	Philippine School for the Deaf, Pasay City	June 4, 2014	September 6, 2024	The tree is in good condition
13	Acacia (<i>Samanea saman</i>)	Tomas Earnshaw Elementary School, Sta. Ana, Manila	June 25, 2014	May 21, 2024	The tree is in good condition



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NO.	SPECIES	PLACE	DATE DECLARED	DATE MONITORED	REMARKS
14	Betis (<i>Madhuca betis</i>)	Manila North Cemetery	June 22, 2015	May 21, 2024	The trees are in good condition. However, the marker of the Betis is missing. The PAMBCS coordinated with the Parks Development Office of Manila regarding the matter. The marker is subject to replacement.
15	Narra (<i>Pterocarpus indicus</i>)				
16	Ipil (<i>Intsia bijuga</i>)				
17	Dita (<i>Alstonia scholaris</i>)	Batasan Hills, Quezon City	June 23, 2015	November 26, 2024	The marker is missing. The PAMBCS shall be coordinating with the barangay regarding the matter. The marker is subject to replacement.
18	Kamagong (<i>Diospyros discolor</i>)	House of Representatives, Quezon city	October 6, 2015	January 24, 2024	The tree is in good condition. Also, there will be a development 11 meters from the tree.
19-20.	Two Rain Trees (<i>Samanea saman</i>)	Santuário del Sto. Cristo Parish, San Juan City	April 25, 2016	March 5, 2024	The trees are in good condition
21	Rain Tree (<i>Samanea saman</i>)	Shoe Museum, Marikina City	May 16, 2016	March 5, 2024	The tree was uprooted, and the marker was destroyed by a storm in 2017. The tree is still alive and is subject to improvement and marker replacement.
22	Rain Tree (<i>Samanea saman</i>)	Our Lady of Abandoned Parish Cemetery, Marikina City		March 5, 2024	The tree is in good condition.



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NO.	SPECIES	PLACE	DATE DECLARED	DATE MONITORED	REMARKS
23	Mango Tree (<i>Mangifera indica</i>)	Alabang Elementary School, Muntinlupa City	April 25, 2017	September 11, 2024	The tree is in good condition. Also, the site is subject to landscaping.
24	Rain Tree (<i>Samanea saman</i>)	Tata Dune Catholic Church, Brgy. San Dionisio, Parañaque City	August 14, 2017	September 11, 2024	The tree is believed to have a center rot. The tree is subject to further inspection and possibly surgery.
25	Narra (<i>Pterocarpus indicus</i>)	Amparo Nature Park, Caloocan City	June 14, 2018	July 3, 2024	The trees are in good condition.
26	Tangisang bayawak (<i>Ficus variegata</i>)				
27	Dita (<i>Alstonia scholaris</i>)				
28	Antipolo (<i>Artocarpus blancoi</i>)				
29	Mango Tree (<i>Mangifera indica</i>)	San Roque Parish Church, Pateros	June 5, 2019	September 11, 2024	The tree is in good condition
30	Acacia (<i>Samanea saman</i>)	Dr. Jose N. Rodriguez Memorial Hospital and Sanitarium, Caloocan City	October 22, 2019	November 26, 2024	The area where the tree is located was used as a dumping site for debris from the ongoing development within the hospital.
31	Balete (<i>Ficus elastica</i>)	National Center for Mental Health, Mandaluyong City	July 24, 2020	March 5, 2024	The trees are in good condition. However, the markers are not properly maintained, and the content of the markers is damaged.
32	Acacia (<i>Albizia saman</i>)				



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NO.	SPECIES	PLACE	DATE DECLARED	DATE MONITORED	REMARKS
33	Acacia (<i>Albizia saman</i>)	Saints Peter and Paul Parish Church, Brgy. Poblacion, Makati City	June 9, 2021	November 20, 2024	The trees are in good condition. However, the content of the markers is falling off. The markers are subject to replacement.
34	Acacia (<i>Albizia saman</i>)				
35	Acacia (<i>Albizia saman</i>)	Don Antonio Heights, Quezon City	April 22, 2022	November 26, 2024	The tree is in good condition
36	Acacia (<i>Albizia saman</i>)	Rizal High School, Pasig City	July 8, 2022	July 3, 2024	The trees are in good condition
37	Acacia (<i>Albizia saman</i>)				
38	Acacia (<i>Albizia saman</i>)	Immaculate Conception Cathedral, Pasig City	December 8, 2022	November 20, 2024	The tree is in good condition
39	Duhat (<i>Syzygium cumini</i>)	Metro Manila College, Quezon City	February 27, 2023	February 13, 2024	The tree is in good condition
40	Acacia (<i>Albizia saman</i>)	Most Holy Trinity Parish, Manila	August 22, 2023	September 6, 2024	The tree is in good condition
41	Botong (<i>Barringtonia asiatica</i>)	Brgy. 12, Roxas Blvd., Pasay City	December 14, 2023	September 6, 2024	The tree is in good condition



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Assessment of Potential Heritage Tree Candidates

The Office continued its efforts to identify and assess potential Heritage Tree candidates in various locations within Metro Manila. Several promising sites were assessed, including:

Table 18. Assessment of Potential Heritage Tree Candidates

Tree	Location
Malak-malak	Eurovillas Townhomes, Manila City
Acacia	Bamboo Organ, Las Piñas
Balete and Narra	Prime Homes Real Estate, Capitol Hills, Quezon City
Acacia	Minor Basilica and Archdiocesan Shrine Parish of St. Anne, Taguig City
Narra (3) and Talisay	Landers Area South, Taguig City
Acacia and Kamagong	Family Park, Valenzuela City
Acacia (2) and Balete	Bonifacio Global City, Taguig City
Copperleaf and Amugis	Manila American Cemetery and Memorial
Acacia	St. Joseph Parish, Las Piñas

While these trees exhibit potential for Heritage Tree designation, further documentation, including historical information and completed nomination forms, is required before official proclamation.

Heritage Tree Site Improvement

To enhance the aesthetic appeal and public awareness of Heritage Trees, the PAMBCS undertook site improvement activities at two locations:

- Starwoods Manufacturing Inc., Karapatan, Valenzuela City:** Landscaping activities were conducted around the Duhat (*Syzygium cumini*) Heritage Tree, which was proclaimed on December 20, 2013.
- National Center for Mental Health, Mandaluyong City:** The PAMBCS is scheduled to replace damaged Heritage Tree markers on December 18, 2024.



Figure 193. Heritage Tree Site Improvement

These efforts highlight the PAMBCS' commitment to not only identifying and protecting Heritage Trees but also improving their surrounding environments to promote public appreciation and conservation.



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ISSUANCE OF WILDLIFE PERMITS

The Region through the Wildlife Resources Permitting Section (WRPS) of the Licenses, Patents and Deeds Division (LPDD) is one of the frontline services of the Department of Environment and Natural Resources-National Capital Region (DENR-NCR) in-charge in the processing and issuance of various wildlife permits. Permits being processed by WRPS and issued by our Office are as follows;

1. Certificate of Wildlife Registration
2. Wildlife Local Transport Permit /
Special Local Transport Permit
3. Wildlife Farm Permit
4. Wildlife Export Certification
5. Wildlife Import Certification
6. Wildlife Re-Export Certification
7. Wildlife Special Use Permit (for wildlife exhibition)
7. Wildlife Gratuitous Permit
8. Clearance to Operate

Based on the approved CY 2024 Work and Financial Plan, WRPS has a total budget of P250,000.00 to cover expenses in the implementation of its activities. Below are the target on wildlife applications processed/acted upon/permits issued by WRPS and endorsed CITES Export/Re-Export/Import Permit applications to the DENR-Biodiversity Management Bureau (DENR-BMB) for this year:

Table 19. Wildlife Permits issued for CY 2024

A. Applications Processed/Acted Upon / Permits Issued	No.
Certificate of Wildlife Registration (CWR)	200
Wildlife Local Transport Permit (LTP) /	650
Wildlife Farm Permit (WFP)	4
Wildlife Export Certification (WEC) / Wildlife Import Certification (WIC) / Wildlife Re-Export Certification (WREC)	150
Wildlife Special Use Permit (WSUP)	60
Gratuitous Permit (GP)	4
Clearance to Operate (CTO)	2
sub-total	1,070
B. CITES Import/Export Application Endorsed to BMB	
CITES Import/Export Application Endorsed to BMB	13



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This year, the DENR-NCR has issued a total of 2,378 various wildlife permits and 20 endorsements of CITES Export, CITES Re-Export, and CITES Import Permit applications forwarded to the Biodiversity Management Bureau (BMB). WRPS accomplished and surpassed majority of its target except for the issuance of Clearance to Operate (CTO).

Also, 20 endorsements prepared for CITES Export, CITES Re-Export and CITES Import Permit filed applications were forwarded to the DENR-Biodiversity Management Bureau (BMB), all with the recommendation for the issuance of the necessary CITES permits.

Table 20. Other Wildlife Permits issued for CY 2024

A. Applications Processed/ Acted Upon / Permits Is- sued	Target (no.)	Accomplished (no.)	Percentage Accomplished (%)
CWR	200	252	126
LTP	650	1,281	197
WFP	4	6	150
WEC/WIC/WREC	150	678	452
WSUP	60	149	248
GP	4	11	275
CTO	2	1	50
total	825	2,378	
B. CITES Import/Export/Re- Export Applications En- dorsed to BMB			
CITES Import/Export/Re- Export Applications Endorsed to BMB	13	20	154

With the 650 issued Wildlife Import Certifications this year, almost a hundred more than last year of 552 total issued, it hold the record of the most number of WICs issued since 2004. Majority of the import certifications issued covered various high-end wildlife by-products (i.e. bags, ready to wears, scarves, key holders, shoes, card holders, etc.) imported by known luxury brands from Italy, France, and Singapore.



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Per instruction by our OIC Regional Executive Director, on 12 July 2024 and 10 December 2024 processing and issuance of wildlife Local Transport Permit (LTP) and Wildlife Import Certification (WIC) were shifted online thru our developed Wildlife Resources Information and Permitting System (WRIPS).

A total of 636 LTPs and 103 WICs were issued via online.

This year, wildlife enforcement operations of the Philippine National Police-Maritime Group (PNP-Maritime) on illegal wildlife trading has resulted to the issuance of a total of 183 Certifications by the OIC of WRPS per request on existence of wildlife permit issued by our Office authorizing them to possess, transport, and or trade wildlife.

The OIC Chief of WRPS attended/participated during the following design thinking workshop and consultation workshops/meeting organized by DENR-BMB:

“Design Thinking Workshop on Developing the Philippines ABS Functional Mechanism/ABS Clearing House” on July and October 2024 at Clark, Pampanga and Puerto Princesa City, Palawan respectively, participated by representatives from Regions 3, 5, PCSDS, NCR and other government agencies.

Technical Working Group Consultation Meeting on the Amendment of R.A.9147 re: discussed the proposed chapters on wild flora and its integration on the amendment of the Wildlife Act on Oct. 2024;

“Demonstration and Validation Activities for the Frontline Services and Transaction System (FSTS)” on Nov. 2024 at Binondo, Manila participated by all Regions.

“Consultation Workshop for the Policies/Programs Relative to the Sustainable Use of Wildlife Resources” on Nov. 2024 at Davao City participated by all Regions.



ADAPTIVE CAPACITIES OF HUMAN COMMUNITIES AND NATURAL SYSTEMS

To improve the resilience and adaptive capacities of human communities in Metro Manila, DENR-NCR's Conservation and Development Division - Production Forest Management Section (CDD-PFMS) implemented the following programs and activities in 2024:

Carbon Sequestration Studies

DENR-NCR conducted carbon sequestration studies at Arroceros Forest Park (AFP) in Manila and Caloocan (Amparo) Nature Park (CNP) in Caloocan City. The objectives of these studies were:

- To describe the socio-institutional setting of park management
- To assess floristic biodiversity
- To map and describe vegetation cover change
- To measure biomass and carbon stocks of vegetation
- To estimate the potential economic value of carbon stocks

Key Findings:

- **Arroceros Forest Park (AFP):** Total carbon stock of 242.3 tons of carbon (tC), valued at P220,417.03.
- **Caloocan (Amparo) Nature Park (CNP):** Total carbon stock of 156.6 tC, valued at P138,858.51.

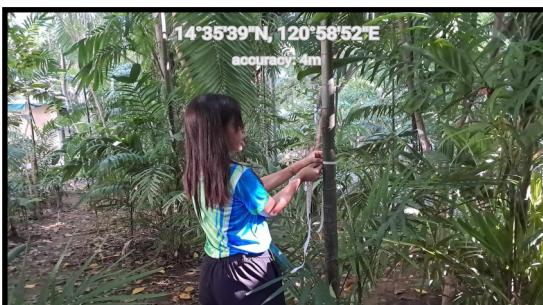


Figure 194. Princess Careon, a PFMS personnel, measures the diameter-at-breast height (DBH) of a palm located inside the AFP.



Figure 195. For. Arturo Calderon, Chief of CDD-PFMS, and For. Michelle Gonzales took turns in weighing the forest litters and other herbaceous samples.



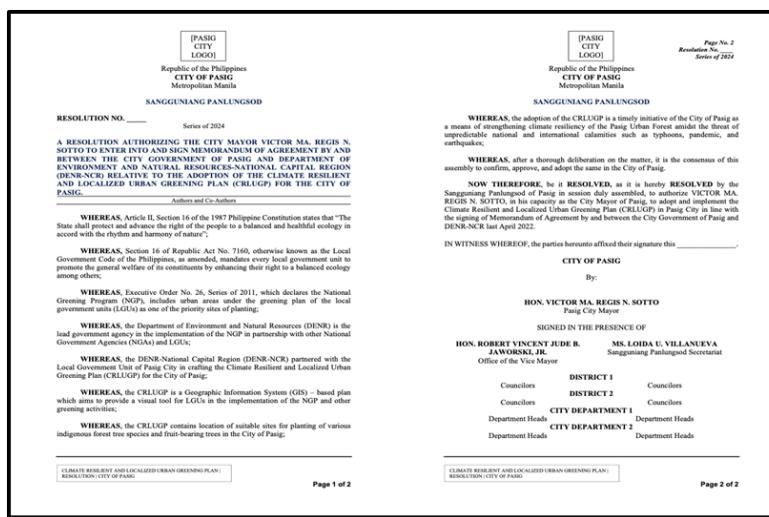
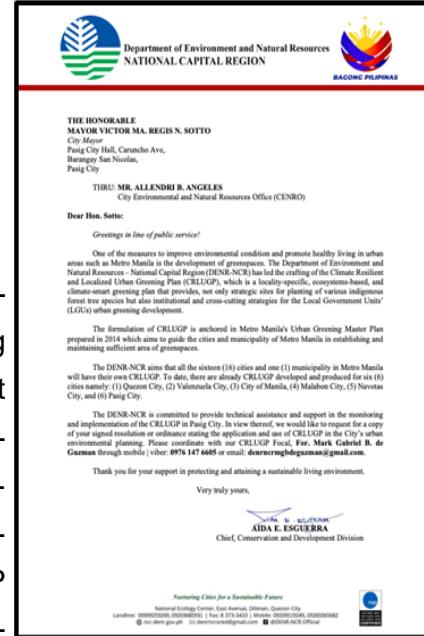
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Support to the Implementation of the Climate Resilient and Localized Urban Greening Plan (CRLUGP)

DENR-NCR endorsed a pro-forma resolution to the City Government of Pasig on May 6, 2024, encouraging the adoption and implementation of the CRLUGP. The Region, through the CDD-PFMS, will continue to provide support to Pasig City in implementing the CRLUGP through various activities, including:

- Seedling provision
- Institutional support
- Other related activities

DENR-NCR, through the CDD-PFMS, endorsed a pro-forma resolution to the City Government of Pasig on May 6, 2024, encouraging the adoption and implementation of the CRLUGP. The endorsement letter, signed by For. Aida Esguerra, Chief of the Conservation and Development Division, provided the City Government of Pasig with a template resolution to facilitate the adoption process. The Region will continue to provide support to Pasig City in implementing the CRLUGP through various activities, including seedling provision, institutional support, and other related initiatives.



DENR-NCR, through the CDD-PFMS, endorsed a pro-forma resolution to the City Government of Pasig on May 6, 2024, encouraging the adoption and implementation of the CRLUGP. The endorsement letter, signed by For. Aida Esguerra, Chief of the Conservation and Development Division, provided the City Government of Pasig with a template resolution (see attached photo) to facilitate the adoption process. The Region will continue to provide support to Pasig City in implementing the CRLUGP through various activities, including seedling provision, institutional support, and other related initiatives.

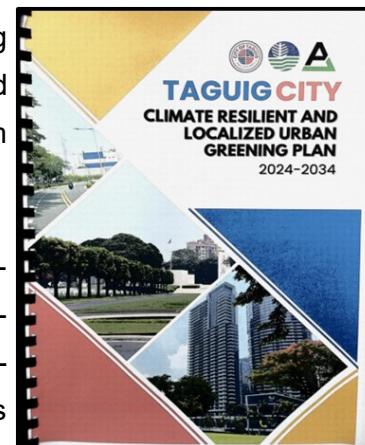


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Preparation of CRLUGPs for Caloocan City and Taguig City

DENR-NCR also prepared Climate Resilient and Localized Urban Greening Plans (CRLUGPs) for Caloocan City and Taguig City. These GIS-based plans are aligned with the 2014 Metro Manila Urban Greening Plan and aim to guide LGUs in establishing and developing open spaces as greenspaces.

The CRLUGPs for Caloocan City and Taguig City outline key programs, activities, and strategies for establishing, developing, maintaining, and protecting greenspaces. DENR-NCR, through the CDD-PFMS, will provide technical assistance to both cities in implementing their respective CRLUGPs from 2024 onwards.



Nationwide Capacity Building on CRLUGP Development

The successful development of CRLUGPs for Caloocan City and Taguig City, in collaboration with Palec and Amigos Urban Environ Forestry Support Services, gained recognition from the DENR Central Office - Climate Change Services and other DENR Regional Offices. Recognizing the importance of having a CRLUGP for urban forests, these offices requested capacity building to develop their own plans.

In response, DENR-NCR, in partnership with the DENR Climate Change Service, conducted a nationwide capacity building program to train DENR Regional Offices and Local Government Units on CRLUGP development. This initiative aims to enhance the capacity of these institutions to develop and implement climate-resilient urban greening plans.



Figure 196. For. Gabriel de Guzman presentation of the purpose and heart of crafting a Climate Resilient and Localized Urban Greening Plan (CRLUGP)



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IMPROVED LAND ADMINISTRATION AND MANAGEMENT

ISSUANCE OF LAND PATENTS

This year, this Region has accomplished 959 Residential Free Patent Applications (RFPA) through the continuous implementation of its internal controls. In addition, since the implementation of the “Colored Folder System”, the applications that belong to the current year were tagged with green folders and were prioritized.

With that, this office also prepared 2 draft proclamations with Complete Staff Work endorsed to the Land Management Bureau; issuance of 7 Special patents and appraisal of 5 Patrimonial properties.

RESOLUTION OF LANDS DISPUTES/CASES

For 2024, the Region was able to conduct Alternative Dispute Resolution (ADR) on 8 land cases and settled 2 cases through ADR.



Figure 197. Resolved Land Claims and conflict through Alternative Dispute Resolution



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HANDOG TITULO 2024

DENR-NCR participated in the Handog Titulo Program conducted by Local Government of Taguig City held on September 20, 2024. We have awarded 152 titles under the Residential Free Patent disposition.



Figures 198-199. Handog Titulo Program in Taguig City last September 20,



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The region also conducted Handog Titulo for the recipients of the Barangay San Isidro, Parañaque City on December 11, 2024. We have awarded 219 titles under the Residential Free Patent disposition.



Figures 200-201 . Handog Titulo Program in Parañaque City last December 11,



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The DENR-NCR also conducted its first-ever Mass Signing Ceremony of the Deed of Sale for the Insular Government Property Sales Application wherein 26 Vendee attended the ceremony.



Figures 202-203. Mass Signing Ceremony for IGPSA



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Lastly, DENR-NCR established a One-Stop-Shop for Residential Free Patent Applications in Taguig City.



Figures 204-205. Application of RFPA in Taguig City



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LAND SURVEY

A total of 485 lots were surveyed as part of the Free Lot Survey activity. It is worth noting that the majority of claimants involved in this initiative intend to submit patent applications under the Residential Free Patent Act.

Before approving any surveys, comprehensive inspections and verifications were carried out at every stage of the process. Measures were put in place to address any irregularities and avoid overlapping surveys. Ensuring accurate technical descriptions was a key focus to confirm the technical accuracy and correctness of the survey results.

The following actions were completed:

- The returns for 1,960 survey plans were technically verified and approved.
- 147 technical inspections were conducted on various types of surveys.
- 147 survey orders and survey authorities were issued.
- Verification and relocation of 24 advanced surveys were carried out.

The Region successfully scanned 4,114 newly approved plans and documents. The implementation of an online appointment system, facilitating clients in submitting plans with complete survey returns, played a crucial role in achieving this target.

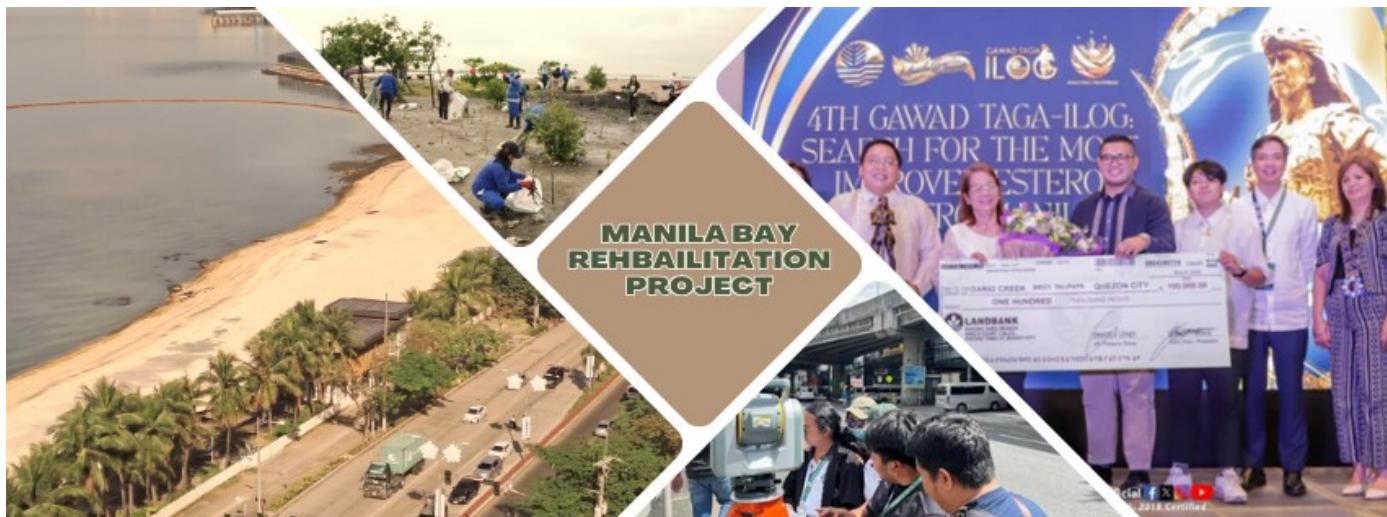
DIGITAL CADASTRAL DATABASE (DCDB) CLEANSING AND MAINTENANCE OF THE REGIONAL LAND ADMINISTRATION AND MANAGEMENT SYSTEM (LAMS)

The Digital Cadastral Database (DCDB) is a detailed database within LAMS Philippines, housing all approved survey plans and public land records. It contains textual data, scanned documents, maps, and spatial information. The process of cleansing the DCDB involves adjusting survey projections (from local to PRS'92), identifying and correcting faulty surveys, resolving gaps and overlaps, and linking scanned records to the Cadastral database to prevent and detect suspicious or fraudulent entries. Every record entered into LAMS Philippines is subject to validation and verification within the DCDB.

This year, a total of 5,026 approved surveys consisting of documents, plans, and lot data computations were scanned for digital conversion in the LAMS-DCDB. For uploading of documents, plans, and lot data computation, 3,035 surveys were successfully uploaded, comprising 1,467 for 2024, 142 for 2023, and an additional 1,426 from previous years. A total of 18,211 lots of data were encoded and validated into the system. Meanwhile, in data migration, 433 approved surveys were transferred from LAMS version 5.1 to LAMS version 4.8. Furthermore, data cleansing was conducted again across nine cities—San Juan, Valenzuela, Muntinlupa, Caloocan, Manila, Marikina, Mandaluyong, Pasay, and Quezon City—to ensure the quality and consistency of the data.



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MANILA BAY SITE COORDINATING MANAGEMENT OFFICE

I. BACKGROUND

In compliance with the Supreme Court's Mandamus order for the cleanup and rehabilitation of Manila Bay, as well as Administrative Order No. 16 dated February 19, 2019—entitled “Expediting the Rehabilitation and Restoration of the Coastal and Marine Ecosystem of Manila Bay” and establishing the Manila Bay Task Force—various activities have been undertaken to ensure proper enforcement and implementation of these directives.

The cleanup and rehabilitation of Manila Bay is structured into three phases: 1) Cleanup and Water Quality Improvement, 2) Resettlement and Rehabilitation, and 3) Education and Sustainment. Numerous activities have been carried out by different agencies in collaboration with stakeholders. Below is a summary of the activities that took place from January to December 2024, aligned with the phases of the Manila Bay Rehabilitation Program.

PHASE I. Cleanup and Water Quality Improvement

The Phase I of Manila Bay Rehabilitation Program focused on addressing solid waste management and the accumulation of water hyacinth in Metro Manila's waterways. These waste and invasive species largely contributed to the bay's water quality degradation.

The DENR National Capital Region (DENR NCR), together with its four Metropolitan Environmental Offices (MEOs) – North, East, West, and South are committed to the intensive cleanup and rehabilitation of Manila Bays as mandated by the supreme court mandamus order for its protection, restoration and preservation.



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Initiatives include intensive cleanup activities led by the Estero Rangers (ERs) who is in charge on cleaning waterways and River Protection Officers (RPOs) ensuring that the rivers connected to the bay are maintained and protected. Also, it is a collaborative effort which Local Government Units (LGUs) particularly barangays and its people taking part on promoting community compliance with environment protection.

Engineering interventions were also used such as paddle boats and trash boat in instances where cleanup operations are conducted along waterways or coastal areas to help collect solid waste and water hyacinth preventing blockage and further degradation. These collaborative actions aim to restore water quality and ecosystem. Bringing back its own beauty and creating a cleaner, safer environment for the communities around Manila Bay

Conduct/support to cleanup activities

As of December 2024, a total of 1,236,084 sacks of waste collected equivalent to 37,082,520 kilograms (assuming 30 kg per sack). Also, included in the total collection were 106,889 sacks of water hyacinth from the 677 clearing operations both made by MEOs and 21, 972 volunteers. While Estero Rangers leads the total collection of waste ranging from 1,022, 037 sacks of waste largely achieved from their daily cleanup of waterways. These initiatives highlight the role of community and inter-agency coordination in protecting and restoring the beauty of Manila Bay and its surrounding ecosystem. Also, cleanup drive targeted priority areas so that the impact would be maximize and the waste materials collected would be properly disposed. (See annex 1, Table 21 for the detailed cleanup activities).

Estero Rangers Program

The Estero Rangers Program is a vital part of the Manila Bay Rehabilitation Program, led by the DENR National Capital Region. These initiatives deploy selected residents from barangays to conduct cleanup operations and ensure the maintenance of creeks, estero and other waterways within their communities. The efforts on cleaning esteros and creeks stems from today's reality that majority of these waterways connected to the Manila Bay are largely polluted with waste often illegally disposed by residents. As Estero Rangers being the frontliners for environmental protection, they play a critical role for the cleaning of waste and removing of accumulated water hyacinth in their assigned waterways.



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In addition to their daily cleanup tasks, Estero Rangers have also taken part in initiatives such as installing improvised waste collector traps and supporting DENR programs, including tree planting, distributing informational materials, and participating in environmental programs and event.

As well as being the members of the community, Estero rangers also encourage to enlighten their neighborhood by sharing how to properly disposed their household waste and avoid dumping their garbage into waterways.

All LGUs in Metro Manila practices segregation of waste collection and in cases where part of communities is hard to reach, Estero rangers are being tapped by the barangays for the assistance in cleanup operation.

As of December 2024, a total of 1,422 Estero rangers were deployed and operating daily. They successfully removed 1, 022,037 sacks of waste from 354 Waterways in 488 barangays. This year total of 1,422 out of targeted 1467 (97%) Estero Rangers were deployed and also 15 out of targeted 164 River Protection Officers deployed across the Metro Environmental Offices (MEOs). (See Annex1, Table 22 for the deployment of personnel)



Figure 206. Clean-up of the Estero Rangers along Park 22 Creek, Marikina City (right) and along Tunasan River, Brgy. Tunasan (left).

Monitoring of MBCO-issued trash boat

The Manila Bay Coordinating Office (MBCO) has made significant strides in supporting waste management efforts by donating twelve (12) trash boats. These donations were distributed to seven (7) Local Government Units (LGUs) namely Malabon, Manila, Navotas, Paranaque, Pateros, Taguig and two units each to Metropolitan Manila Development Authority (MMDA) and Pasig River Coordinating and Management Office (PRCMO) enhancing their capacity on effectively collection and management of solid waste in waterways and coastal areas.



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Since 2015 the DENR National Capital Region was tasked to monitor the status of these trash boats. For this year, findings revealed that four (4) of the trashboat is currently operational While the rest is non-operational due to various reasons. In terms of the trashboats damages, they are subjected for repairs. These trashboats are essentials in the continuous cleanup and protection of the assigned areas.

Table 22. Status on the operationalization of trash boats as of December 2024.

S/N	Office	Trash Boat No.	Date Donated	Docking Station	Status
1	Malabon	2	October 2012	Hulong Duhat Pumping Station	Non-operational with request for pull-out
2	Manila	1	October 16, 2012	Manila Yacht Club	Unserviceable. According to Solanda Enterprise, Inc., the vessel is beyond repair; with request for pull-out
3	Navotas	25	April 2015	Near Bgy. Hall, Bagumbayan South	Operational
4	Parañaque	9	April 2015	Back of LTO Parañaque	Non-Operational
5	Taguig	16	2015	Bgy. Sta. Ana, beside MMA station	Non-operational
6	Valenzuela	17	May 2015	Don Pedro Subd., Bgy. Marulas	Non-operational, subject to repair
7	Pateros	18	January 2016	Bgy. Poblacion	Non-operational with request for pull-out
8	DENR-NCR	23	September 2015	Las Piñas-Parañaque Wetland Park	Operational
9	MMDA	5	October 2014	Napindan Dock Yard	Non-Operational
10		6			Non-Operational
11	PRCMO	36	January 2017	Lawton Ferry Station	Operational
12		40	July 2017		Operational



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Figure 207. The DENR-NCR Trashboat which is still in operation as to date.

Conduct of Consultation/Coordination Meetings

To promote community engagement in the rehabilitation of Manila Bay and its tributaries. A total of 204 consultations and coordination meetings have been organized in 2024. These meetings served as a collaboration for proper and efficient implementation of projects under the Manila Bay Rehabilitation program. These efforts lead to significant progress in terms of organizing activities, addressing problems and clearing for program objectives.

Initiatives have been done to collaborate and address environmental concerns along Manila Bay. These includes regular cleanup activities, strategic planning with the LGUs and signing of agreements for the protection of waterways. One of these partnerships were LGUs of Marikina, San Mateo and Pateros that leads to implementation of cleanup activities on rivers and creeks. The coordination done during this year align the restoration efforts and management of our program to sustainable environmental benefits.

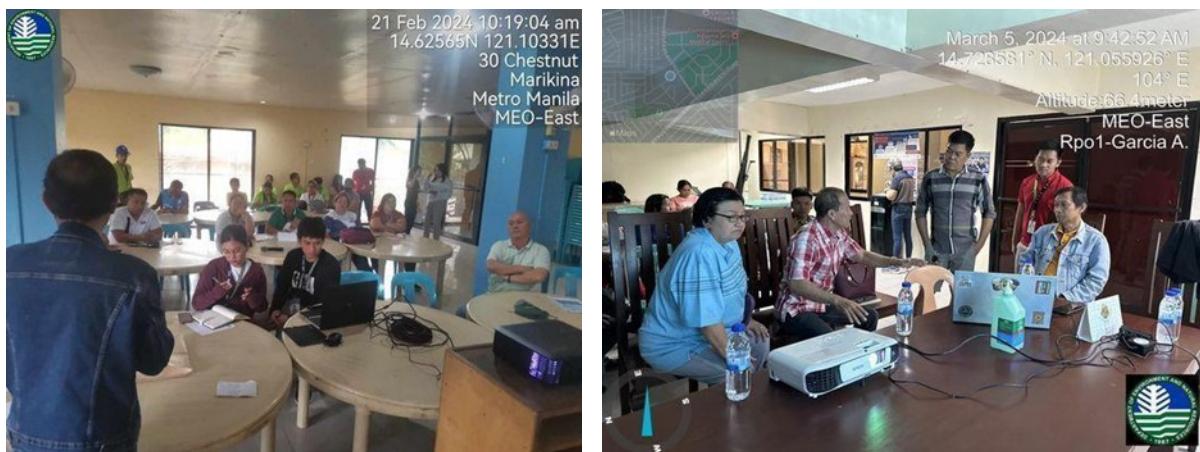


Figure 208. Coordination meeting in the identification of activities for the rehabilitation of Balanti Creek (left) Barangay Balingasa and representatives of Balintawak Market for the maintenance and protection of Balingasa Creek (right).



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Figure 209. Coordination meeting in the identification of activities for the rehabilitation of Nangka River. (left) discussing the clearing of obstruction along the 3 meter legal easement of waterways within the municipality(right).

Also, as part of the ongoing efforts to improve waterway monitoring, an ocular inspection of installed CCTVs was conducted in key river systems shown in Figure 9. The inspected locations included Estero de Vitas in Brgy. 129, Manila; Pasig River in Brgy. Napindan, Taguig City; Estero de Tripa de Gallina in Brgy. 143, Pasay; and San Juan River in Brgy. Roxas, Quezon City. Out of these areas, portion of the Tripa de Gallina in Bgy. 143, Pasay City and a portion of Pasig River in Brgy. Napindan, Taguig City were installed with CCTVs this year. For reference, Table 23 shows the CCTVs Location and year installed.

Table 23: CCTVs Locations in identified waterways

MEO	WATERWAYS	BARANGAY	YEAR INSTALLED
North	Tullahan River	Bgy. Bangkulasi, Navotas	2022
East	Marikina River	Bgy. Rosario, Pasig	2022
	San Juan River	Bgy. Roxas, Q.C.	2023
	Manggahan Floodway	Bgy. Manggahan, Pasig City	2024
West	Estero de Vitas	Bgy. 129, Manila	2023
	Estero Tripa de Gallina	Bgys. 143 and 144, Pasay	2023
	Estero Tripa de Gallina	Bgy. 156, Pasay City	2024
South	Paranaque River mouth	Bgy. La Huerta, Paranaque City	2022
South	Pasig River	Bgy. Napindan, Taguig City	2023
	Pasig River	Bgy. Comembo, Makati City	2023
	Paranaque River	Bgy. San Dionisio, Paranaque City	2022



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Figure 210. CCTV installed along Manggahan Floodway, Bgy. Manggahan, Pasig City(left) and along Estero Tripa de Gallina, Bgy. 156, Pasay City (right).

Engineering Intervention

The 17 local government units (LGUs) of Metro Manila along with their respective barangays, have consistently served as dependable partners of the DENR-NCR in implementation of Ecological Solid Waste Management Program (Republic Act No. 9003) and various rehabilitation initiatives for Manila Bay.

In addition to the conduct of intensive cleanup activities, the fabrication and deployment of mechanisms and equipment for the optimization of waste collection were accomplished to aid in the implementation of proper solid waste management among the stakeholders. Through a Memorandum of Agreement, 27 sets of dumpster bins (Figure 211) were distributed to targeted Local Government Units (LGUs) from July to September.

Meanwhile, a total of 100 sets of rolling trash bins (Figure 212), each comprised of 4 sets covering biodegradable, non-biodegradable, residual, and recyclable waste categorized by waste classification following the Republic Act 9003 or the Ecological Solid Waste Management Act of 2000, were distributed to targeted Barangays and Academes.



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Figure 211. The actual photo of the engineering interventions distributed to stakeholders indicates the waste classification for each color (Left): Dumpster Bins (Right): Rolling Trash Bin.



Figure 212. MOA Signing for Rolling Trash Bins on September 20, 2024.

Also, to aid in the collection of waste floating along waterways and waste trapped in the trash traps, paddle boats are deployed. This year 2024, a total of 30 units of paddle boats are deployed to various barangays along waterways. The boat is made of PVC material with a capacity to carry 4-5 person. Furthermore, 20 units of Pontoon Barge were deployed to 20 LGUs with paddleboat. Figure 13-14 shows the MOA signing of paddleboats and Pontoon Bardge. (See annex 1, Table 24 for the Summary of Engineering Interventions provided by DENR NCR to Metro Manila LGUs and barangay in support of Manila Bay Rehabilitation Program)



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Figure 213. MOA Signing of Paddleboats (TOP) and Pontoon Barge (Bottom)

Conduct of Monitoring and Patrolling of Waterways

The Metropolitan Environmental Offices are tasked with the continuous monitoring and patrolling of waterways within their jurisdictions, a responsibility managed by their designated River Protection Officers (RPOs).

Major waterways and tributaries are monitored by 151 River Protection Officers (RPOs). These River Patrollers, in addition to monitoring the status of waterways, disseminate information and relevant laws regarding the management of solid waste. During monitoring activities, all observations are promptly addressed in coordination with the quick response team and are referred to the concerned Local Government Units and National Government Agencies for immediate action.

This year, a total of 398,696 meters of accessible waterways across 363 waterways have been successfully monitored and patrolled. To regularly monitor the status of waterways in terms of their physical condition, the Metropolitan Environmental Offices regularly patrol along waterways to ensure that the Local Government Units comply with their mandate to maintain and protect the waterways from any obstruction and free of solid waste. This year, a total of 398,696 meters of accessible waterways have been monitored and patrolled across 363 waterways. However, 1,886-meter portion of these waterways remains inaccessible due to the presence and risk in ISF areas. (Table 25 show the total length monitored by each MEOs.)



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Table 25. The Total Length Monitored by each Metropolitan Environmental Office.

MEO	TOTAL LENGTH OF WATERWAYS (m)	TOTAL LENGTH ACCESSIBLE AND MONITORED (m)	TOTAL LENGTH IN-ACCESSIBLE (due to ongoing construction and/or presence of ISFs) (m)
North	128,739	41,268	87,471
East	112,545	112,545	*60,922.13
West	128,130	128,130	*7,433.60
South	225,249	116,753	94,335
TOTAL	398,696	398,696	250,161.73

*Not included in the target under the WFP.

Implementation of Manila Bay Digital Mobile Monitoring System

This year, the DENR-NCR has continuously stepped up its efforts in environmental management by enhancing its monitoring and patrolling of creeks or estero and other wateryways with the implementation of Manila Bay Digital and Mobile Monitoring System (MBDMMS).

This system employs a three-level approach of monitoring. Level 1 monitoring by waterways, creeks, estero, coast or baywalks. In terms of onsite monitoring or patrolling, the bike estero patrollers are the new version of estero rangers. Not only equipped with bikes but also with smartphones, body cameras and hand-held radios. Next the Level 2, monitoring is by river system.

It is area based and on-site which means it is a problem-based monitoring involving surveillance, community coordination and documentation. Level 3 is region wide in scope. Monitoring is off site requiring overall coordination among monitoring units and formation and maintenance of spatial data base. Building on this concept, the Regional Office has implemented parallel mechanisms to fully operationalize the Manila Bay monitoring system, including the following:

The Command Center

Serves as the database center of all monitoring activities conducted by the Metropolitan Environmental Offices and the Quick Response Team. The Command Center is equipped with advanced technology to provide real-time monitoring of waterways as well as to provide prompt actions to the observations monitored.



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The Command Center provides real-time information through the dashboard created through the Integrated Manila Bay Rehabilitation Information System; a system used by the monitoring officer via offline-online mode. The datasets created by the system are used in the provision of urgent actions and as a reference for possible policy formulation.

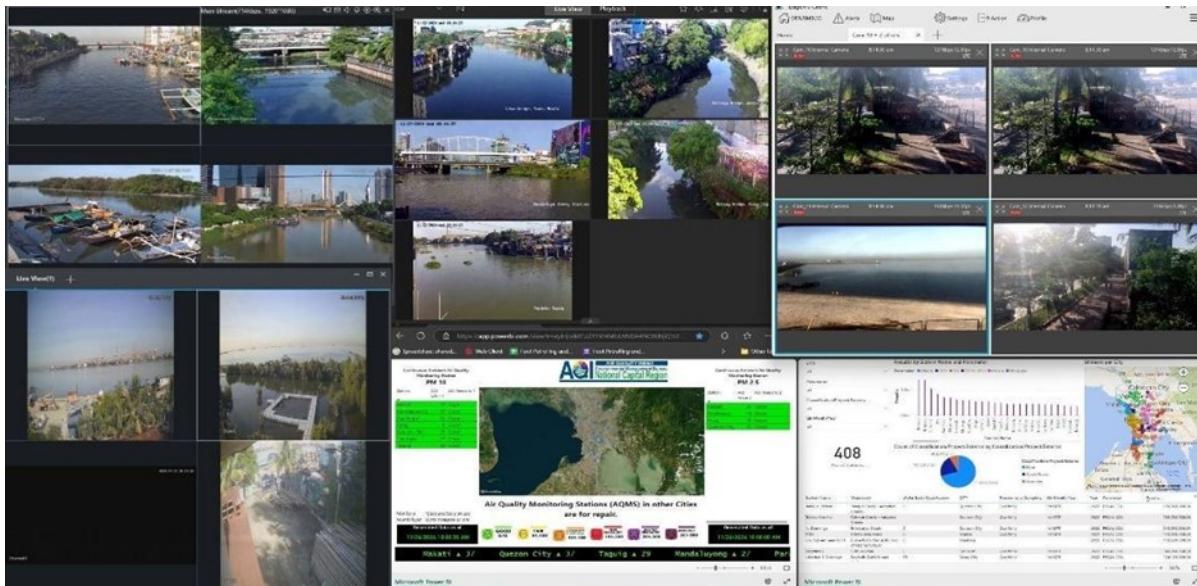


Figure 214. The Manila Bay Command Center

Mobilization of Quick Response Team

To immediately respond to incidences and observations along waterways, Quick Response Team was deployed to ensure that waterways were regularly being maintained and that no untoward incidence occurred. The team is closely coordinated with the Metropolitan Environmental Offices for immediate action/enforcement on reported incidents.

A total of 86 monitoring stations were established across waterways, including 20 stations under MANATUTI, 33 stations under PAMARISAN, and another 33 under MUNTPARLASZAP, to monitor discharges, water discoloration, Informal Settler Families (ISFs) presence, and waste accumulation. Waste collection in different waterways were addressed through coordinated cleanup operations, maintenance and efficient collaboration to aim for a quick response. The reported concerns were properly endorsed to relevant authorities such as MEOs, EMB-NCR, LLDA and LGUs for appropriate actions. The highlights of the QRT are shown in Annex 1, Table 26. Also figures 215-221 shows the QRT route in each River System.



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A total of 86 monitoring stations were established across waterways, including 20 stations under MANATUTI, 33 stations under PAMARISAN, and another 33 under MUNTIPARLASPZAP, to monitor discharges, water discoloration, Informal Settler Families (ISFs) presence, and waste accumulation. Waste collection in different waterways were addressed through coordinated cleanup operations, maintenance and efficient collaboration to aim for a quick response. The reported concerns were properly endorsed to relevant authorities such as MEOs, EMB-NCR, LLDA and LGUs for appropriate actions. The highlights of the QRT are shown in Annex 1. Also figures 215-221 shows the QRT route in each River System.



Figure 222. Conduct of Monitoring along major waterways in Muntinlupa-Parañaque-Las Piñas River system.

Development of Geospatial Management System

The development of the Geospatial Management System has already achieved its targeted goals for 2024. The system was designed to enhance the storage, management, and analysis of spatial and geographic data. This center is expected to serve as a cornerstone for monitoring systems, providing critical data for urban planning, logistics, and the inventory of natural resources, thereby supporting informed decision-making processes.

The GDMC is set to function as a centralized hub for storing and managing data, information, maps, and other resources generated by various agencies and stakeholders engaged in the Manila Bay Rehabilitation Program. Its establishment marks a vital step in improving data accessibility and facilitating data-driven decisions and strategic planning. This initiative also includes the provision of essential office equipment for the Surveys and Mapping Division, including Information, Communication, and Technology Equipment (ICTE), as well as the procurement of Network Attached Storage (NAS) systems. These tools are intended to consolidate and manage data related to activities, projects, and initiatives connected to Manila Bay, further enhancing the efficiency and coordination of program efforts.



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Figure 223. The actual photo of the completed establishment of the Geospatial Database Management Center (GDMC)

Resettlement and Rehabilitation of cleared areas/nearby ecosystems

Phase II of the Manila Bay Rehabilitation Program aim on reclaiming the legal easements of rivers and waterways within the bay area. These includes critical operations such as identifying the old and present courses of waterways, assessing encroachments by Informal Settler Families (ISFs), and addressing illegal structures established by individuals or commercial entities. These efforts complied with the Presidential Decree (PD) No. 1067, also known as the Philippine Water Code. Article 51 of the Code mandates that riverbanks, streambanks, and shores of seas and lakes, within a three-meter zone in urban areas, are designated for public use to support activities like recreation, navigation, fishing and salvage. Furthermore, the law prohibits unauthorized structures or prolonged occupancy in these zones.

The DENR NCR uses drone technology alongside traditional ground surveys. These innovative approaches improve accuracy and efficiency enabling smooth generation of data which can be used on immediate sharing to various agencies like Department of Public Works and Highways (DPWH) and other local government units (LGUs). These collaborations facilitate related projects such as waterway dredging, ISFs relocation and development of resettlement areas.

Also, in order to achieve these, The Regional Office put out most priority to the coordination with the concerned local government units and barangays and other stakeholders that may be affected by the survey-related activities. The coordination meetings serve as a platform to present its plan, methodologies and also request assistance that may be needed to the concern LGUs or barangay that may be essential for the successful execution of the survey activity.



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Coordination with LGUs, NGAs, and other concerned offices/stakeholders

For this year 2024, a total of 54 coordination meetings were conducted with various local government units (LGUs), national government agencies (NGAs), private entities, and community stakeholders surpassing the annual target of 36 to ensure alignment and support for planned activities. One of the highlights include the following:

On January 8, 2024, the survey team of the Manila Bay Rehabilitation Program held a coordination meeting with the Department of Public Works and Highways (DPWH) address the flooding incidences along Baloc-baloc Creek in Paranaque City which engage the concerned private entities: the Wing-An Resort and Camella Homes which previously was consulted for the illegal debris dumped between their boundaries and aimed at securing funds for the clearing operations of the area and to conduct joint inspection (Figure 224).

On March 14, 2024 the team joined the 1st Quarterly Meeting of the Manila Bay Rehabilitation Program's Social Preparation and Relocation Cluster, organized by Department of Human Settlements and Urban Development (DHSUD). They aim to review issues raised in the November 2023 meeting and discussing updates on the relocation efforts being done for families affected by the rehabilitation activities along Manila Bay and its tributaries. Key agencies participated including MBCO, DILG-NCR, NHA, MMDA and DENR-NCR also reaffirming its commitment on submitting comprehensive Ground and Drone Survey Reports to DHSUD to support the initiatives (Figure 225).

On May 21, 2024, the survey team of the Manila Bay Site Coordinating and Management Office convened a coordination meeting with the City Planning and Development Office - Taguig and City Engineering Office - Taguig to discuss the objectives of the Manila Bay Rehabilitation Program (Figure 226).

On June 13, 2024 the survey team coordinated with the Homeowners' Association of Mountain View Subdivision regarding the conduct of drone survey inside the subdivision where Lupang Pangako Creek passes through (Figure 227).



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Figure 224. Discussion with DPWH, Wing-An, Camella Homes and LGU representative re. the flooding concern along Baloc-baloc Creek, Parañaque City.



Figure 225. 1st Quarter KRA 3 meeting held at the DHSUD Building, Q.C.



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Figure 226. In depth discussion with City Planning and Development Office - Taguig and City Engineering Office – Taguig.



Figure 227. Discussion with DPWH, Wing-An, Camella Homes and LGU representatives re. the flooding concern along Baloc-baloc Creek, Parañaque City.

Furthermore, with regards to the implementation of survey works, coordination meetings with the concerned barangays are necessary to ensure that there will be no resistance from the community during the conduct of ground and drone surveys such as the location of permanent drilling of steel bolts as well as the drone flying schedule. Table 7 shown the list of LGU coordinated and figure. (See annex 1, Table 27 for the list of LGUs coordinated in line with the conduct of drone and ground surveys)

Pre-survey Activities

Research of Titles/Plans/Lot Data Computation

Regarding the length of waterways in the National Capital Region, The DENR National Capital Region (DENR NCR) has successfully acquired data for 77.33% of the total length of these waterways using



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As of December, a total of 4,813 titles/plans/lot data from DENR-NCR and LRA records were researched from various waterways surpassing the annual target of 3,666 including portions of Las Piñas River, Estero de Tanque, Estero de Paco, Ilang-ilang Creek, Coloong River, Taguig River, Batasan River, Palico Creek, Lamesa Creek, and Pateros River. Table 228 shows the details.

Table 28. Total No. of Waterways

UNIVERSE	TOTAL NO. OF WATERWAYS	
	318	
	LRA Acquired Data	Utilized LRA Data
2019	41	27
2020	33	18
2021	34	14
2022	17	5
2023	14	5

Data Processing/ Encoding

From the acquired titles, plans and lot data computations from LRA, a total of 5,728 parcel data were processed and encoded. The cleansing of data is necessary to ensure that all data sources are verified.

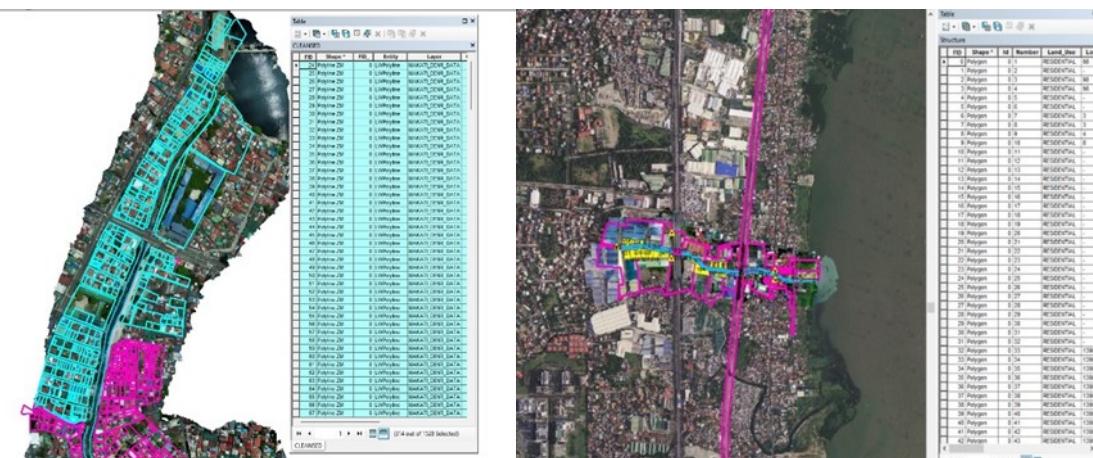


Figure 228. Palico Creek

Figure 229. East Cabulasan Creek



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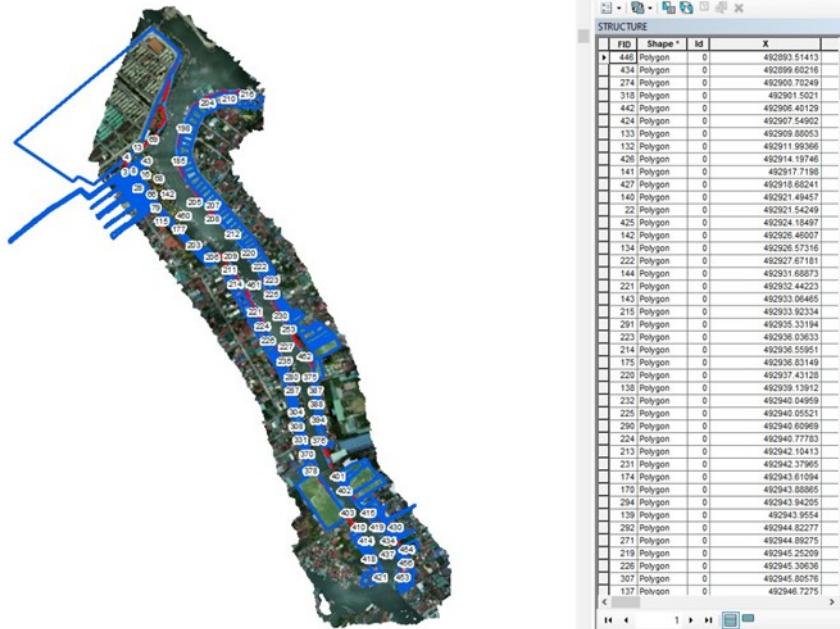


Figure 230. Batasan River

Actual Survey

Drone and Ground Survey

From 2019 to 2024, the survey team has delineated a total of **429,394.27 meters** of waterways, equivalent to 53.50% of the entire length of water bodies within the National Capital Region. This milestone demonstrates the progress made in identifying and mapping these waterways as part of ongoing efforts to rehabilitate and manage Metro Manila's aquatic ecosystems.

This year 2024, **48, 182.089 meters** for 20 waterways surpassing the annual target of 14 rivers surveyed by 142.86% accomplished. Moreover, the following waterways are surveyed this year shown in Table 229 Also figures 231-234 shows the sample photo during the conduct of Drone and Ground Survey.



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Table 29. Total Length of Waterways surveyed this year 2024.

	Waterways	Length (meters)
Drone Sur-	Ilang-Ilang Creek	2,424.69
	Batasan River	1,672.87
	Coloong River	3,321.62
	Pateros River	3,726
	Lupang Pangako Creek	4,078.4
	Nagkrus Creek	2,301.985
	Taguig River	6,136.8
	Palico Creek	568
	Cabulusan Creek	726.03
	Maysan-Canumay Creek	1,288.579
	Sapang Bakaw	3,007.48
	Libis Creek	3,920.21
	Polo River	2,042.24
	Canumay Creek	899.777
Laser Scan- ner Survey	Anaranan Creek	1,857.82
	Ibayo-Tipas Creek	1,486 square meters
	Palico Creek (Portion)	2,391 square meters



Figure 231. Maricaban Creek



Figure 232. Parañaque Creek



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Figure 233. *Libis Creek*



Figure 234. *Sapang Bakaw*

In the process of delineation, the team has identified a total of **25,829 illegal** structures encroaching within the designated legal easements and waterways. These structures obstruct water flow, contribute to environmental degradation, and pose challenges to rehabilitation and flood mitigation initiatives. Addressing these encroachments is a key component of the program's objectives.

Additionally, the team has prepared a total of **64 completed staff work** reports, covering the period from 2019 to 2024 shown in Table 230. These reports present findings from ground surveys, drone imaging, and mapping, serving as a reference for planning, enforcement, and coordination.

Table 30. Completed Staff Work 2029-2024.

YEAR	TOTAL WATERWAYS WITH COMPLETED STAFF WORK (CSW)
2019	1
2020	5
2021	12
2022	21
2023	14
2024	11
TOTAL	64



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Also, the DENR-NCR successfully established a One Control Station at its headquarters, linked to active geodetic stations, including PTAG at the Bureau of Lands Location Monument (BLLM) No. 1 in Las Piñas City, as well as stations at UP Diliman, Luneta Park, and Marikina. This control station has strengthened the DENR-NCR's ability to efficiently gather and coordinate data from multiple source stations, supporting improved monitoring and decision-making for environmental management in Metro Manila.



Figure 235. One Control Station

Post-survey and Data Processing

Preparation of Maps of Waterways

As part of post-survey activities, the technical team accomplished the processing and preparation of 232 maps surpassing the annual target of 210. These maps visually represent the surveyed sites, the extent of the easement areas, and the identification of illegal structures along these easements. Figures 236-238 shows the sample maps prepared this year.

Demarcating the Legal Easement of Rivers

After the completion of drone and ground survey, the 3-meter legal easements of waterways are delineated and demarcated on the map. For this year, a total of 66 sites along the legal easements of waterways were effectively demarcated. It surpasses the annual target of 42 this year.



Figure 236. Batasan River



Figure 237. Magdaong River



Figure 238. Taguig River

PHASE III Protection and sustainment through Extensive Public Awareness and Engagement

The phase III of Manila Bay Rehabilitation Program focuses on sustaining the progress achieved in the earlier phases. The DENR NCR plays an important role in habitat and ecosystem management. These include assessing waterways, riverbanks and streambanks to identify greening opportunities. The efforts such as planting bamboo and other indigenous species for erosion control and establishing or monitoring of linear parks are part of the action being done by the DENR. Through these coordinated efforts, the program moves forward to restore ecological balance while fostering community participation in these initiatives.

Rehabilitation of waterways/streambanks/riverbanks

Site Assessment of Streambanks, and River Banks for Greening

As of this year, the unit has been able to conduct twenty-four (24) site assessments along easements of major rivers and creeks in different cities in Metro Manila. Fourteen (14) areas were identified suitable for greening interventions (direct planting of bamboo and indigenous trees) while two (2) areas were identified suitable for Linear Park Enhancement Project encompassing a total area of approximately 15,913 m². (see annex 1, Table 231)



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Preparation and Implementation of Greening Enhancement Design

This year 2024, two (2) proposed sites were identified for the Linear Park Enhancement Project: first is along Tullahan River in Brgy. Tinajeros, Malabon City (Phase III) and the other along Ilang-ilang Creek in Brgy. North Fairview, Quezon City (Phase II). Service provider for Brgy Tinajeros is L.R Mayuga Construction Services while for Brgy North Fairview is Alphin Trading and Construction. They both successfully completed the implementation of the projects.

The site inspection were conducted to assess compliance with the approved greening design plans. The linear parks along Tullahan River in Brgy. Tinajeros, Malabon city was inspected on April 8, 2024 and findings confirmed alignment with the approved site development plan. Also, on June 4, 2024 the linear park along Ilang-ilang Creek in Brgy. North Fairview, Quezon City was inspected and findings confirm that it is also align with the approved site development plan.



Figure 239. Completed Linear Park along Ilang-ilang creek (left) and Tullahan River, Bgy. Tinajeros, Malabon City (right).

Partnership with LGUs in the Protection and Maintenance of Waterways/Streambanks

As part of the effort to promote community engagement, the linear parks established in CY 2024 will be turned over to the concerned barangays through a ceremonial Memorandum of Agreement (MOA) signing on September 6, 2024. Figure 240 shows the signing of the MOA between the officials of Barangays Fairview, Quezon City, and Tinajeros, Malabon City.



Figure 240. A Memorandum of Agreement for the protection and maintenance of the established linear parks was conducted on September 6, 2024, with the Barangays Fairview in Quezon City (left) and Tinajeros, Malabon City (right) to ensure the proper care and maintenance of the sites.



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Since 2021, monthly monitoring has been conducted for linear parks established in different cities of Metro Manila to assess their condition. (Figure 241). The monitoring activity conducted for the established linear parks showed that ten (10) out of fifteen (15) linear parks are in good condition, while five (5) fall below the ideal survival rate shown in Table 232. Notably, the 5 linear parks with lower survival rates do not have Estero Green Rangers (EGR) assigned. At present, there are four (4) EGRs deployed, who are responsible for the maintenance and protection of the established linear parks. Additionally, close coordination and communication with the local LGU have been established to address the status and needs of the linear parks.

Table 32. List of fifteen (15) Established Linear Park Subject to Monthly Monitoring.

No.	Location	Waterways	Area (sq.m.)	Year Established	AVERAGE SURVIVAL RATE FOR CY 2024(%)
1	Brgy. 8, Manila City	Esterio Dela Reina	600	2021	56
2	Brgy. Maysilo, Malabon City	Tullahan River	430		93
3	Brgy. Sta. Lucia, Pasig City	Mabuhay Creek	501		44
4	Brgy. Manggahan, Pasig City	Manggahan Flood-way	90		62
5	Brgy. Concepcion, Malabon City	Tullahan River	100	2022	89
6	Brgy. Tinajeros, Malabon City	Tullahan River	200		96
7	Brgy. North Fairview, Quezon City	Ilang-ilang Creek	200		99
8	Brgy. Sta. Cruz, Quezon City	Dario Creek	30		86
9	Brgy. Central, Quezon City	Tanque Creek	600		94
10	Brgy. Tumana, Marikina City	Palay Creek	700		65
11	Brgy. Marikina Heights, Marikina City	Park 23 Creek	300	2023	70
12	Brgy. Tinajeros, Malabon City	Tullahan River	200		91
13	Brgy. Sto. Niño, Marikina City	Balanti Creek	200		72
14	Brgy. Tinajeros, Malabon City	Tullahan River	200	2024	95
15	Brgy. North Fairview, Quezon City	Ilang-ilang Creek	200		99
	TOTAL		4,551		



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Figure 241. Monitoring Of Established linear park enhancement project from CY 2021-2024.

Rehabilitation of Streambanks thru Tree Planting Activities

Building upon insights gained from both previous and ongoing site assessments, this year 2024 the unit successfully organized **eight (8) tree-growing activities** were conducted in areas identified suitable for greening interventions (see Table 232). These sites, covering a combined area of 5,732 m², were planted with a total number of 890 seedlings, including bamboo and other indigenous species.

These efforts aim to rehabilitate degraded ecosystems, enhance the natural landscape, and provide long-term ecological benefits, such as improved air quality, flood mitigation and strengthened habitat connectivity for local wildlife. (see annex 1, table 233 for the list of bamboo and indigenous trees planted area for CY 2024)



Figure 242. Bamboo and Indigenous tree growing activity conduct from July-November CY 2024.



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Ecosystem-Based Management for Sustainable Development

This year, the DENR National Capital Region made significant progress in maintaining and protecting mangrove conservation sites at Tanza Marine Tree Park in Navotas City and Baseco in Manila. The targets for nursery maintenance were fully met, with two nurseries kept in good condition. The production of 14,406 mangrove seedlings exceeded the original target of 8,000, due to high demand for planting materials from local government units in Malabon, Navotas and partnered organizations.

In addition, 12 mangrove sites were enriched, and regular monitoring and maintenance were carried out. Monthly reports for Baseco and Tanza Marine Tree Park were submitted to the Coastal Resource and Foreshore Management Section (CRFMS).



Figure 243. Mangrove seedling production at BASECO (left) and Tanza Marine Tree Park (right)

Asian Waterbird Census & Quarterly Bird Monitoring

Birds are vital components in maintaining the ecosystem. Beyond their beauty, they also play an important role in seed dispersal which support the growth of plants, trees and forest. Like all other creatures they are also vulnerable to environmental changes especially the impacts of climate change. These highlights the importance of monitoring bird population and their natural habitat and migration pattern. Which effective bird monitoring is essential for the conservation of biodiversity and the continued health of ecosystem.

The monitoring took place on the following dates: January 16-19, 2024, April 9-16, 2024, July 23-31, 2024 and October 29, 30 and November 5, 2024 at the following established monitoring sites: Las Piñas-Parañaque Wetland Park (LPPWP), Tanza Marine Tree Park in Navotas City, Barangays Mandalay and Tagalag in Valenzuela City, Roxas Boulevard (Dolomite Beach) and Baseco Beach in Manila City, and at the Ninoy Aquino International Airport (NAIA), respectively. These locations were chosen in consultation with experts and NGOs to ensure effective observation of bird populations. The bird census was conducted by the PAMBSCS, CRFMS and LPPWP-PAMO personnel; representatives from the City Environment and Natural Resources Office (CENRO) Las Piñas and Parañaque; Metropolitan Environmental Office South; and Manila International Airport Authority (MIAA) Airport Ground Operation and Safety Division



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This year, a total of 24,339 avian individuals recorded in the established monitoring sites in Metro Manila. With the highest record on the 1st Quarter with a total of 11,002 individuals recorded wherein this is the season of peak migration explaining the highest record. Among the sites, Las Pinas-Parañaque Wetland Park (LPPWP) recorded the highest observation throughout the year with a total of 9,120 individuals observed accounting to 37.47% of the total observation. This was followed by the Tanza Marinte Tree Park (TMTP) and Barangay Malanday and Tagalag in Valenzuela City with a total observation of 7,214 and 4,735 individuals, respectively. This contributes to the locality of the area where most likely less disturbed by human activities and the abundance of food supply for this species.

Table 34. Recorded Number of Avian Individuals per site and per Quarter this year.

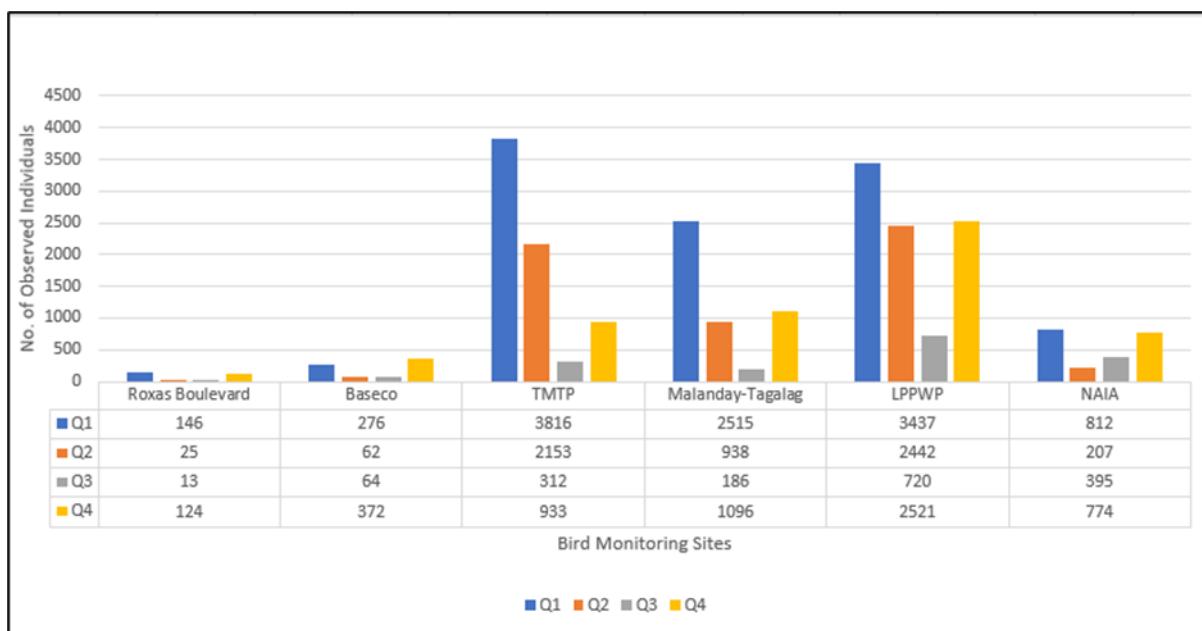


Figure 244. Representative photos on the conduct of bird monitoring in Metro Manila



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Conduct of Communication, Education, and Awareness (CEPA) Activities

The Intention of CEPA Activities is to increase public awareness and inform or educate public regarding the continuous effort being done by the DENR NCR to rehabilitate the Manila Bay. Through this, hopefully may the public understand the importance of Manila Bay and the immeasurable benefits it offers on our ecological and economical aspect. May this CEPA Activities also encourage individuals to change their ways or practices for the sake of the cleaner and sustainable environment.

As of this year, the Metropolitan Environmental Office (MEO) and the Regional Strategic Communication and Initiatives Group (RSCIG) have conducted 121 Communication, Education, and Public Awareness (CEPA) activities targeting various groups. These initiatives included lectures, forums, webinars, social media postings, photo releases, and the distribution of flyers. Topics covered included the Ecological Solid Waste Management Act (RA 9003), climate change, marine litter, the Clean Water Act, and the state of Manila Bay. Stakeholders such as academic institutions, local government units (LGUs), non-governmental organizations, and community-based groups were engaged to raise awareness and encourage active participation in environmental protection.



Figure 245. Lecture and distribution conducted on by North MEO to Officials, personnel and officials of Brgy. 183, Caloocan City.



Figure 246. Lecture conducted at Manalo Elementary School in Pateros City re. RA 9003 and Climate Change in support to the Manila Bay Rehabilitation Program



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Conduct/Support to Environmental Event

This year the DENR successfully celebrated various events promoting sustainability and environmental advocacy. The events happened this year are the following:

As part of the World Water Day 2024 celebration with the theme "Water for Peace," a special event was held on March 19, 2024, at the Las Piñas-Parañaque Wetland Park. This activity highlighted the vital role of women, particularly the female Estero Rangers, in water conservation and sustainable practices.

For Ocean Month, under the theme "*Develop a Sustainable and Equitable Blue Economy*," activities highlighted the efforts and contributions of Estero Rangers. These initiatives empowered them to take on advocacy roles for ocean conservation and sustainable practices, while also recognizing their leadership in preserving natural resources.



Figure 247. World Water Day Event (left) and Celebration of Ocean Month (right)

Also, the DENR actively participated in the annual International Coastal Cleanup (ICC), a significant event organized annually on the third Saturday of September, bringing together a massive gathering of volunteers to simultaneously clean oceans, coastal areas, rivers, estuaries, and other bodies of water to combat the global issue of ocean trash.

On September 21, 2024, cleanup activities took place at various identified sites in the National Capital Region (NCR), with a record-breaking 29,547 volunteers participating from different government agencies, academic institutions, and private sector organizations. A total of 266,434 kilograms of solid waste were collected. The waste collected during the cleanup is transported to the nearest Materials Recovery Facility. Table 15 show the cleanup sites and Table 16 and 17 show the details about the waste.



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Figure 248. SM by the Bay, Pasay City

Table 35. Clean Up Sites

CLEANUP SITES
1. SM by the Bay, Pasay City
2. Las Pinas-Paranaque Wetland Park
3. BASECO Beach, Manila
4. Dolomite Beach, Manila
5. Tanza Marine Tree Park, Navotas
6. Coastal Area, Bgy. Bagumbayan, Navotas City
7. Marikina River, Bgy. Nangka, Marikina City
8. Pasig River, BASECO Side
9. Portion of Manila Bay at Manila Ocean Park
10. ASEANA Business Park, Paranaque City



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Table 36. Top 10 Waste Collected.

TOP 10 WASTE COLLECTED	TOTAL (PCS.)
1. Food Wrappers (candy, chips, etc.)	65,500
2. Beverage bottles (plastic)	43,453
3. Other Plastic bags	37,776
4. Plastic Pieces	37,604
5. Foam pieces	35,315
6. Bottle caps (plastic)	32,879
7. Straws/stirrers	24,942
8. Take out/away containers (plastic)	18,454
9. cups and plates (plastic)	17,498
10. Other plastic/foam packaging	16,954

Table 37. Total number of pieces and participants

TOTAL NUMBER OF PIECES	493,565 PCS
TOTAL WEIGHT (kg)	266,434
TOTAL SACKS (no.)	17,910
TOTAL NO. OF VOLUNTEERS	29,547
TOTAL NO. OF VOLUNTEER GROUP/ORGANIZATION	365

Lastly, during the last quarter of the year. In observance of "Manila Bay Day" on December 18, the DENR National Capital Region is organizing activities for the restoration of Manila Bay. These include a cleanup at BASECO Aplaya on December 3 with 100 participants collecting 171 sacks of waste.

A webinar titled "Manila Bay Unveiled" was held on December 10 to discuss the rehabilitation program. On December 11, a quiz contest, "Bay Brains, The Ultimate Manila Bay Quiz Con" was held at the Laguna Lake Development Authority in Quezon City, with the Finance Division winning first place, followed by the Metropolitan Environmental Office – East and Pasig River Coordinating and Management Office.



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Figure 249. Baseco Cleanup Activity



Figure 250. Manila Bay Unveiled Zoom Event



Figure 251. The Ultimate Manila Bay Quiz Contest

Ensuring Sustainability through Provision of Awards/Incentives/recognition to LGUs/stakeholders (Gawad Taga-Ilog)

The Gawad Taga-Ilog (GTI): Search for the Most Improved Estero in Metro Manila is an initiative by the DENR-NCR aimed at recognizing the efforts of local government units (LGUs) and barangays in Metro Manila to keep their waterways clean and trash-free. It also seeks to encourage a positive change in the attitudes of Metro Manila residents regarding their role in maintaining clean waterways.

The program mechanics is that all 17 cities and municipality in Metro Manila are eligible to join the search program, but only one estero/waterway, with at least a length of 500 meters are allowed to be nominated and consider as their official entry to the contest.

All nominated Estero/waterways will be judged according to set of criteria form in accordance with the four clusters indicated in Operational Plan for the Manila Bay Coastal Strategy (OPMBCS). The four clusters are Solid Waste Management, Liquid Waste Management, Informal Settler Families and Illegal Structures Management and Habitat and Resources Management.



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For the 2024 cycle, the competition featured two categories: Category A, which welcomed new entrants and non-winners from previous GTIs, and Category B, known as the #BattleForSustainability, where past winners competed again to showcase their ongoing efforts.

After a thorough evaluation, Dario Creek in Barangay Tali papa, Quezon City, emerged as the Grand Champion for Category A, while Estero Tripa De Gallina in Makati City secured the top spot in Category B. These recognitions underscore the commitment of local communities and stakeholders to improving water quality and restoring the ecological balance of Manila Bay tributaries.



Figure 252. 2024 Grand Champion Category A. Dario Creek. Brgy. Talipapa, Quezon City.



Figure 253. 2024 Grand Champion Category: Estero Tripa De Gallina, Makati City.



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Strengthening Stakeholders Engagement

As of the continuous effort to strengthen collaboration and engagement. Quarterly assessment and planning workshops were conducted in the Metro Manila LGUs which are clustered per River System and aim to assess and evaluate the activities of each thematic cluster based on the Area-Based Management Plan (ABMP) in line with the Operational Plan for Manila Bay Coastal Strategy (OPMBCS), consolidate all efforts conducted in line with the Manila Bay Rehabilitation Program and prepare plan to achieve remaining targets based on their commitments.



Figure 254. PAMARISAN River Management Committee Meeting held on June 5, 2024 at the Quezon City Hall.



Figure 255. MANATUTI River Management Committee Meeting held on June 6, 2024 at the Disiplina Village Bignay, Valenzuela City.



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Figure 256. MUNTIPARLASPIZAP River Management Committee Meeting held on June 7, 2024 at the Cuneta Astrodome, Pasay City.



Figure 257. MUNTIPARLASPIZAP River Management Committee Meeting held on September 10, 2024 at Makati City.



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Figure 258. PAMARISAN River Management Committee Meeting held on September 12, 2024 at the Philippine Normal University, Manila.



Figure 259. MANATUTI River Management Committee Meeting held on September 13, 2024 at the Session Hall, Caloocan City Hall.



Figure 260. Unified River Management Committee Meeting on November 5-7, 2024 at Thunderbird Resort in Binangonan, Rizal.



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Figure 261. Year-End Site Coordinating Committee Meeting on November 8, 2024, at Ace Hotel.



Figure 262. MEO East Year-end Assessment for Estero Rangers on November 20, 2024, at Marikina Height Covered Court, Marikina City.



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Figure 263. MEO South Year-end Assessment for Estero Rangers on November 20, 2024, at San Dionisio Gym, Parañaque City



Figure 264. MEO North Year-end Assessment for Estero Rangers on December 3, 2024 at Malabon Sports, Malabon City.

Strengthening of Networks Towards Sustainable Actions

To strengthen networks for sustainable initiatives, a variety of capacity-building activities, training workshops, and cross-visits were organized in 2024. Key sessions included training on aerial photogrammetry software, the operation of advanced surveying equipment, and mangrove rehabilitation. Additionally, an exchange on climate change adaptation and environmental management fostered knowledge sharing between DENR NCR and Region V.



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Training on hydroponics farming and the cascading of Rheophytes was also conducted to promote sustainable practices in urban wetlands and riverine areas. Additionally, a learning exchange with DENR Region III and Central Luzon LGUs happened offering insights and plan on manila bay rehabilitation program. These initiatives aim to build collaboration and skills that could contribute to the long-term goals of manila bay restoration program. Figures below show some highlights of the trainings and workshops conducted these year.



Figure 265. Conduct of training/workshop on processing software of aerial photogrammetry using Trimble Business Center.



Figure 266. Practical application on total laser scanner with National Ecology Center Compound.



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Figure 267. Conduct of Mangrove Rehabilitation Training Part I and II on March 20, 2024 (left) and May 29, 2024(right).



Figure 268. RED Caancan with Sorsogon City Mayor Hamor and DENR R5 ARD MS Supsup.



Figure 269. Conduct of training about community organizing and training immersion with the Alliance of People's Organization along Manggahan Floodway, Pasig, (APOAMPF) held last July 3-5, 2024 at a venue in Quezon City.



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Figure 270. Conduct of a capacity building on the cascading of the Rheophytes for the National Capital Region: A Guidebook on Urban Wetlands and Riverine Resilient Species at a venue in Quezon City.



Figure 271. Conduct of immersive learning through experiential exchange between DENR-NCR, DENR-Region 3, and LGUs of Central Luzon on climate change adaptation, technological applications, and nature-based approach solutions in the Manila Bay rehabilitation last August 29-31, 2024.



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SPECIAL PROJECT: BASECO

Application of Nature-based/Environment-Friendly Solutions

Under the Manila Bay Rehabilitation Program, pursuant to A.O. 16 s. 2019, the Department of Environment and Natural Resources-National Capital Region (DENR-NCR) achieved significant milestones in the protection and rehabilitation of coastal resources in the City of Manila, specifically at BASECO Beach and Pasig River.

In 2024, the DENR-NCR successfully conducted 24 coastal cleanup activities at the 3.18-hectare BASECO Lagoon and Aplaya, collecting 1,117 sacks of waste, equivalent to 19,650 kilograms. Additionally, 18 mangrove planting activities were carried out, resulting in 738 mangroves planted, including species such as Bakauan Babae, Bakauan Bato, Api-Api, Kulasi, and Pototan. The program also achieved the production of 1,124 mangrove seedlings to sustain future planting and conservation efforts.

These accomplishments demonstrate DENR-NCR's dedication to restoring and protecting Manila's coastal ecosystems, ensuring their sustainability and resilience.

Table 38. Production of seedlings at BASECO, Aplaya.

Species	No. of seedlings available
Bakauan Babae (<i>Rhizophora mucronata</i>)	115
Bakauan Bato (<i>Rhizophora stylosa</i>)	533
Api-Api (<i>Avicennia marina</i>)	120
Kulasi (<i>Lumnitzera racemosa</i>)	20
Pototan (<i>Bruguiera gymnorhiza</i>)	132
TOTAL	1,124



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Figure 272. Cleanup Initiative in the BASECO Aplaya on December 3, 2024.

Another effort in the protection of the BASECO Lagoon is the possible sheet piling along BASECO Aplaya. Upon its monitoring, few mangroves were reported to be damaged due to dumping of sand and other construction waste from the ongoing project. Therefore, a continuous coordination with LGUs and Metropolitan Environmental Office – West (MEO-West) Furthermore, the status of actual accomplished of the three phases of the project is shown in Table 19.

Table 39. Status Actual Accomplishment Sheet Piling Project along BASECO, Aplaya

Phase 1	100%
Phase 2	90%
Phase 3	90%
Total	93.33%

Maintenance of BASECO Boardwalk

The 60m High-Density Polyethylene (HDP) pontoon installed at the BASECO Lagoon is regularly maintained through regular cleaning, brushing, and checking of its parts for safety by the assigned Estero Rangers in the area.



Figure 273. Regular maintenance activities at the BASECO Boardwalk, including brushing of the HDP pontoon boardwalk (left) and the systematic cleaning and removal of solid waste from the surrounding area, ensuring the site remains clean and safe for community use (right).

BUILD BACK BETTER TASK FORCE (BBBTF)

In line with the Manila Bay Rehabilitation Program under A.O. 16 s. 2019 and in support to E.O. 120 s. 2020 otherwise known as the “Creation of Build Back Better Task Force”, the Conservation Development Division (CDD) – Production Forest Management Section conducted quarterly monitoring of bamboo planting areas throughout CY 2024. The summary of these monitoring activities, along with the average survival rate for the year, is provided below.



Figure 274. Ten (10) monitoring sites of bamboo planted area under support to Build Back Better Task Force.



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Table 40. List of Bamboo Planted Areas Under BBBTF.

Date Planted	Location	Waterway	Area (m2)	Average Survival Rate
June 11, 2021	Brgy. Tumana, Marikina City	Marikina River	1800	97.5
June 16, 2021	Brgy. Malanday, Marikina City	Marikina River	1980	88.5
July 3, 2021	Brgy. Nangka, Marikina City	Marikina River	600	99
September 22, 2021	Brgy. Nangka, Marikina City	Nangka River	600	94.67
July 13, 2021	Brgy. Matandang Balara, Quezon City	Marikina River	650	97.67
July 28, 2021	Brgy. San Nicolas, Pasig City	Parian Creek	1320	80
July 30, 2021	Brgy. Milagrosa, Quezon City	Buahaya Creek	130	89.67
October 11, 2021	Brgy. Palatiw, Pasig City	Parian Creek	1500	78.78
October 12, 2021	Brgy. Sto. Tomas, Pasig City	Parian Creek	550	48
November 11, 2021	Brgy. Concepcion Dos, Marikina	Balanti Creek	300	95
Total No. of Sites: 10			9, 505	



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PROJECT MANAGEMENT AND SUPERVISION

Year-End Assessment CY 2024 and Strategic Planning Workshop CY 2025

The Year-End Assessment CY 2024 and Strategic Planning Workshop CY 2025 were held on November 13 to 14, 2024, at Madison 101 Hotel + Tower, Quezon City. The workshop aims to review the successes, challenges, and lessons learned in implementing various initiatives aimed at restoring and preserving the ecosystem of Manila Bay. It also served as a platform for collaborative discussions to strengthen partnerships and improve the management and coordination of ongoing efforts in the waterways and Manila Bay in the region. This activity is part of the ongoing efforts of DENR-NCR to fulfill its mandate for the Manila Bay Rehabilitation Program, which aims to restore the body of water to its former beauty, cleanliness, and order while ensuring the long-term sustainability of the environment.



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About the Pasig River

Pre-colonial Era

The Pasig River was the birthplace of the early civilizations of Manila. The Pasig River's banks paved the way for the establishment of royal settlements such as the ancient Kingdom of Namayan or Sapa (circa 800-1175 AD) in the present-day Sta. Ana-Mandaluyong-San Juan-Makati area; the Kingdom of Tondo (before 900-1589 AD) at the northern part of the Pasig River delta, and conversely, the Rajahate of Maynila (circa 1258-1571 AD) on the southern part of the Pasig River delta.

Spanish Era (1521-1898)

On May 19, 1571, Manila was declared by the Spanish as the capital of their new colony in the Far East, and subsequently as the capital of the Philippines in 1595. The Pasig River and its tributaries served as the most important means of transportation and navigation and became the lifeline of the city as well as the center of economic activity and development.

Significant infrastructures were built by the riverbanks such as bridges, ports, churches, settlements, and the seat of government which is known as the walled City of Intramuros. Manila became renowned worldwide due to its major developments.

American Occupation (1898-1945)

With the major economic boom in Manila, the Pasig River transformed into a modern colonial landscape with heavy Western influence and its transport load increased which resulted in dredging activities for better navigability of vessels and construction of additional bridges.

In 1905, the Pasig River and its waterways crisscrossed the city with its patches of lush greenery and clean waters which was reminiscent of the Grand Canal of Venice in Italy. This image was designed by an American architect and urban planner Daniel Burnham.

The industrialization and the onset of World War II led to the deterioration of the Pasig River's condition. Fish migration from Laguna de Bay started to decrease. Informal settlements began to occupy the easements of the Pasig River and air and water pollution were experienced. In 1990, the Pasig River was declared biologically dead as it could no longer sustain aquatic life.

Since then, various national and local agencies, public and private organizations, and civil society groups attempted to rehabilitate the Pasig River which only resulted in short-term effects. With the creation of the Pasig River Coordinating and Management Office (PRCMO) by virtue of DENR Administrative Order (DAO) No. 2020-02 dated January 21, 2020, solid waste management and water quality improvement activities were initiated to sustainably rehabilitate the Pasig River.



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Since the establishment of the PRCMO, the monitoring reports from 2009 up to present have shown a declining trend in the fecal coliform count and Biochemical Oxygen Demand (BOD) in the Pasig River. This demonstrates that the PRCMO's continuous collective efforts have had a tremendous impact on the overall health of the Pasig River System.

About the Pasig River Rehabilitation Program (PRRP)

The Pasig River Rehabilitation Program aims to sustain rehabilitation efforts and the improvement of the water quality of the Pasig River System.

Specifically, the program aims to sustain the Pasig River System water quality conducive for transportation, recreation, and tourism while undertaking rehabilitation and restoration of its marine life, in support to the Manila Bay Rehabilitation Program wherein Pasig River is one of its major tributaries.

The rehabilitation of the Pasig River System will help ensure effective and successful ferry operations along the Pasig River, complement the rehabilitation efforts in the Manila Bay Region, and sustain the ecological services offered by the Pasig River and the Laguna Lake.

FY 2024 Summary of Accomplishments

1. Environmental Enforcement Program

- Deployed Environmental Aides (EAs) known as “River Warriors” and “River Patrollers” to maintain the Pasig River System free from solid wastes and other floating debris through regular and special clean-up operations.
- Collected a total of 531,701 sacks or 15,951,030 kilograms or 15,951.03 tons of solid wastes. (1 sack = 30 kilograms)
- Collected a total of 83,824 sacks or 2,514,720 kilograms of water hyacinth in priority waterways as part of the Office’s duties and responsibilities as Member of the Task Force Water Hyacinth which was established by virtue of DENR Special Order No. 2021-57.
- Conducted a weekly River Cleanup Activity in Pasig River along the Malacañang Restricted Area (MRA) in partnership with the Philippine Coast Guard – Coast Guard Station Malacañang.
- Completed the drone and ground survey activities in Estero dela Reina, Estero de San Lazaro, and Estero de Kabulusan.
- Repaired and maintained esteros with linear parks: Estero de Paco, Estero de Magdalena, Estero de Pandacan and Estero de Sampaloc.



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- Installed ten (10) trash traps in priority areas to prevent floating wastes from going directly to the Pasig River: Quezon Bridge, San Juan River (Near New Panaderos Ext.), San Juan River (Buhangin Creek), San Juan River (Hanging Bridge), Pasig River (Binondo Intramuros Bridge), Pasig River (Zamora Bridge), Mouth of San Juan River, Mouth of San Juan River, Pasig River (Delpan Bridge), Pasig River Malacañang Restricted Area, and San Juan River (Sevilla Bridge). The said traps have shown its effectiveness in halting the influx of waste from the major tributaries to the Pasig River System.
- Installed and maintains the 395 trash barriers donated by the Rotary Club of Manila and two (2) trash booms donated by the River Recycle which serves as an efficient and effective solid waste collection mechanism along priority areas of the Pasig River System.

2. Water Quality and Waste Management Program

- Conducted regular water and sediment sampling along the nineteen (19) monitoring stations within the Pasig River System: 6 of these stations are situated along the main Pasig River, 5 are in the Marikina River, 3 are in Taguig-Pateros River; and 3 stations are in the minor tributaries directly draining to the Pasig River.
- Conducted regular water quality monitoring of 47 Pasig River Tributaries which are grouped into nine (9) clusters based on their geographical location. These tributaries are located within the cities of Manila, Marikina, Pateros, Quezon City, San Juan, and Taguig. Monitoring of these waterways are performed to determine improvement or deterioration of their water quality. For CY 2024, 87 stations have been monitored along the 47 tributaries.
- Continuous decrease in the fecal coliform count at the main Pasig River based on the CY 2009 to 2024 monitoring reports. Furthermore, compared to the 2023 monitoring, the fecal coliform count at the main Pasig River in the 2024 monitoring reduced from 267,000 MPN/100mL to 173,000 MPN/100mL which is equivalent to a **35% reduction** indicating a significant improvement in the water quality of the Pasig River. Meanwhile, the Biochemical Oxygen Demand (BOD) concentration at the main Pasig River decreased compared to the 2022 data.
- Conducted profiling of the 47 tributaries of the Pasig River System which aims to evaluate the current condition and status of the identified tributaries of the Pasig River System. The gathered data may be used in the planning and assessment of rehabilitation efforts in the Pasig River System as well as in policy formulation.
- Conducted Waste Analysis and Characterization Study (WACS) which aims to establish a baseline information on the volume and type of solid wastes dumped into the waterways, which can be used as a reference by the National Government Agencies (NGAs), Local Government Units (LGUs), and other stakeholders in planning and policy formation.



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- The Biodiversity Assessment Study of the Pasig River spearheaded by the PRCMO and the Ecosystems Research and Development Bureau (ERDB) has commenced, following the conduct of dry season sampling activities from March 4 to April 5, 2024, as well as wet season sampling activities from July 1 to August 9, 2024, as part of the initial requirements of the study. With assistance from the PCG, the PRCMO joined four (4) teams from the ERDB Technical Working Group to assess different aspects of biodiversity.

3. Support to Operations

3.1 Estate Management Activities

- Conducted various coordination meetings with the Department of Human Settlement and Urban Development (DHSUD) for assistance in conducting the Formulation of Housing Policies on the housing administration and estate management for the two (2) Housing Projects of the defunct Pasig River Rehabilitation Commission (PRRC), namely: 1000 Housing Project also known as the Villa San Isidro (VSI) located in Barangay San Isidro, Rodriguez, Rizal, and 728 Housing Project also known as the Jaime Cardinal Sin Village (JCSV) located in Punta, Sta. Ana, Manila City.
- Monitored the conduct of the Occupancy Verification and Affordability Assessment Survey (OVAAS) to the two (2) housing projects to establish baseline information of present occupants of the subject housing projects as a planning tool for program policy direction and facilitate the turnover of the housing projects initiated by the PRRC to the appropriate national government agency in line to the signed a Memorandum of Agreement (MOA) with the NHA on September 7, 2023.
- On December 12 to 14, 2024, DENR-NCR Legal Division and PRCMO conducted an internal workshop to establish a working draft of policy guidelines on the estate management and housing administration of the two (2) housing projects to address the issues and concerns of the beneficiaries and the housing projects.

3.2 Project Monitoring and Supervision

- Conducted semestral assessment activities to monitor and evaluate the performance of its programs, activities, and projects (PAPs) and to provide recommendations to address the gaps in their implementation.
- Prepared and endorsed FY 2025 Work and Financial Plan, including supporting documents to the DENR- NCR Planning and Management Division (PMD).



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3.3 Pasig River Ferry Convergence Program (PRFCP)

- In consideration of the issuance of Executive Order No. 35 Constituting the Inter-Agency Council for the Pasig River Urban Development which has the general function and responsibility of facilitating and ensuring the full rehabilitation of the banks along the Pasig River water system and nearby water systems to provide alternative transportation, propel economic opportunities, and boost tourism activities, the PRCMO has conducted a Consultative Meeting for the transfer of PRFCP Chairmanship on April 2, 2024. The meeting was attended by representatives from DENR – Central Office, Metropolitan Manila Development Authority (MMDA), Department of Human Settlement and Urban Development (DHSUD), Department of Transportation (DOTr) and Department of Budget and Management (DBM).
- The PRFCP has been renamed to Pasig River Urban Development Convergence Program (PRUD-CP), and DHSUD will lead the broader/wider Program Convergence Budgeting (PCB), which may include not just the Pasig River Ferry but also the development of the whole Pasig River System.

3.4 Capacity Building Activities

- Conducted four (4) capacity-building workshops and activities.
 - 2nd Quarter PRCMO Executive Briefing, Mid-Year Assessment, and Complete Staff Work (CSW) Workshop (*June 10 & 11, 2024*);
 - 2024 Stress Management Workshop: Empowering Mind, Body, and Spirit for a Balanced Workplace (*October 9 to 11, 2024*);
 - Workshop on Disaster Preparedness and FY 2024 Year-End Assessment and Evaluation for Environmental Aides (*November 20 & 21, 2024*); and
 - Year-End Assessment and Performance Review, and Occupational Safety and Health (OSH) and Project Management System (PMS) Workshop (*November 26 to 28, 2024*).

3.5 Partnerships and International and National Environmental Events

- From 2020 to 2021, the PRCMO formalized six (6) partnerships with national government agencies and civil society and non-governmental organizations. These are the following:
 - Environmental Management Bureau - Central Office (EMB-CO)
 - Laguna Lake Development Authority (LLDA)
 - Biodiversity Management Bureau (BMB)
 - Innerwheel Club of the Philippines Manila 101 (IWCP Manila)
 - Rotary Club of San Marcelino Manila (RCSM)



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- In CY 2022, ten (10) partnerships were further established in order to sustainably rehabilitate the Pasig River System with the help of other partner-stakeholders and communities. Partners consist of national government agencies, academic institutions, civil society organizations, and an international non-government organization:

River Recycle Oy

Philippine Public Safety College (PPSC)

Quezon City University (QCU)

Philippine Coast Guard (PCG)

National Bureau of Investigation - Environmental Crime Division (NBI-EnCD)

Junior Chamber International Manila, Inc (JCI Manila)

Star Bonifacio Matikas Eagles Club (SBMEC)

Rotary Club International D3810 (RI D3810)

Rotary Club Manila (RCM)

Various Rotary Clubs (RCSM, RC Manila Kalaw, Manila Diamonds, and Pasay Cyber City)

- In CY 2023, the PRCMO entered into two (2) more partnerships with national government agencies: the National Housing Authority (NHA) for the conduct of the Occupancy Verification and Affordability Assessment Survey (OVAAS) of the former PRRC's housing projects, and the Ecosystems Research and Development Bureau (ERDB) for the conduct of the Biodiversity Assessment Study of the Pasig River System.
- In 2024, a partnership was formalized with the CIIT College of Arts and Technology through a Memorandum of Agreement (MOA) signed on Nov. 13, 2024. The MOA covers the collaborative projects between the Parties on environmental education, such as but not limited to the following: production of information, education, and communication (IEC) materials, including animations, publications, and audio-visual presentations/short films; waste trace project; tree-tagging; and urban greening project. The projects aim to promote environmental awareness among the youth and encourage their active engagement in addressing various environmental issues.
- To date, a total of eleven (11) partnerships are ongoing between the PRCMO and its partner-organizations from varied sectors of society: BMB, IWCP Manila, RCSM, RiverRecycle, PCG, RI D3810, RCM, Various Rotary Clubs, NHA, ERDB, and CIIT



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- A total of thirty (30) communication, education, and public awareness (CEPA) activities and events were conducted in CY 2024, such as conduct of twenty four (24) Dalaw Turo and Pasig River Educational Tours for students and residents of schools and barangays along Pasig River System, and conduct of six (6) activities in support of national and international environmental celebrations: river tour in celebration of World Water Day, National Women's Month, and Girl Child Week in March; nationwide coastal cleanup in celebration of World Oceans Day and Coral Triangle Day on June 7; and two (2) Pasig River Heritage Walks in celebration of World Rivers Day in September, and two (2) heritage walks in celebration of National Volunteer Month and Manila Bay Day in December.

BACKGROUND INFORMATION

Executive Order (EO) No. 93, series of 2019, disestablished the Pasig River Rehabilitation Commission (PRRC) and transferred its functions and incidental powers to various identified national government agencies and to the Manila Bay Task Force (MBTF) created according to Administrative Order (AO) No. 16, series of 2019, which is chaired by the Department of Environment and Natural Resources.

Consequently, the DENR released Administrative Order No. 2020-02 dated January 21, 2020, establishing the Pasig River Coordinating and Management Office (PRCMO) under the Central Office, to ensure the continuity of the plans and programs of the rehabilitation and development of the Pasig River in relation to the Manila Bay Rehabilitation Program. In 2023, the supervision of the PRCMO was transferred from the Central Office to the Regional Office (National Capital Region) according to the FY 2023 General Appropriations Act (GAA).

The creation of the PRCMO was approved by the Office of the President according to the letter of the Department of Budget and Management (DBM) dated October 29, 2021.

CORE FUNCTIONS OF THE OFFICE

According to DAO No. 2020-02, the PRCMO shall lead the implementation of activities of the disestablished PRRC.

The vision of PRCMO is ***to become an effective and efficient coordinating and management office leading and facilitating the restoration and sustainable development of the Pasig River System.***

Meanwhile, ***its mission is to continue and enhance the plans and programs on the Pasig River System in line with the Manila Bay Rehabilitation Program.***

Lastly, ***the goal of PRCMO is to sustain the Pasig River System conducive for propagation of aquatic resources, transportation, and tourism.***

The PRCMO has two (2) divisions approved by the DBM, which have the following functions:



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Table 41. PRCMO's Organizational Unit and Functional Statements

Organizational Unit	Functions
Water Quality and Waste Management Division (WQWMD)	<p>Implement appropriate and sustainable waste and water quality management programs, projects, and activities.</p> <p>Explore and adopt water quality improvement strategies, interventions, and technologies that aim to improve the Pasig River and its environs.</p> <p>Regularly monitor the water quality of the Pasig River and its tributaries through the conduct of water and sediment quality analysis together with partner agencies under the Pasig River Unified Monitoring System.</p>
Environmental Enforcement Division (EED)	<p>Facilitate programs, projects, and activities in maintaining and sustaining the cleanliness of the Pasig River and its tributaries through regular clean-up activities.</p> <p>Provide policy improvements/ recommendations/ guidelines that aim to address solid waste-related concerns, in coordination with agencies concerned, local government units, and other stakeholders.</p>

In 2023, operations of the PRCMO were transferred from the Central Office to the Regional Office (National Capital Region) according to the FY 2023 General Appropriations Act (GAA) and designated the then Regional Executive Director Jacqueline A. Caancan, CESO III as concurrent Executive Director of the PRCMO according to Special Order No. 2023-366.

On July 4, 2024, the DENR - Central Office issued Special Order No. 2024-387, which designated the OIC Regional Executive Director of DENR-NCR, Atty. Michael Drake P. Matias and OIC Assistant Regional Director for Management Services, Ms. Erlinda O. Daquigan, serve as the concurrent OIC Executive Director and OIC Deputy Executive Director of PRCMO, respectively.

PRIORITY PROGRAMS AND MILESTONES

3.1 WATER QUALITY AND WASTE MANAGEMENT PROGRAM

This program focuses on the implementation of appropriate and sustainable waste and water quality management programs, projects, and activities.

Likewise, the program explores and adopts water quality improvement strategies, interventions, and technologies that aim to improve the Pasig River System and its environs.



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Lastly, regular monitoring of the water quality of the Pasig River and its tributaries through the conduct of water and sediment quality analysis together with partner agencies under the Pasig River Unified Monitoring System (PRUMS) is included in this program.

3.1.1 FY 2024 PASIG RIVER UNIFIED MONITORING STATIONS (PRUMS) REPORT

The Pasig River Unified Monitoring Stations (PRUMS) program is an inter-agency initiative to harmonize the water quality monitoring stations and data in the Pasig River System as well as to provide a coherent water quality report for public information. The data acquired in this program could be used as a decision-making tool for the formulation of strategic rehabilitation plans.

Monthly collection of water samples and measurement of in-situ water quality parameters as well as biannual collection of sediment samples are performed in nineteen (19) stations. One (1) station is at the confluence of Pasig River and Manila Bay while six (6) of the nineteen (19) stations are in the main Pasig River namely Jones Bridge, Nagtahan Bridge, Lambingan Bridge, Guadalupe Ferry, Bambang Bridge, and Napindan Bridge. Meanwhile, five (5) of the nineteen (19) stations namely Batasan Bridge, Tumana Bridge, Marikina Bridge, Rosario Bridge, and Sta. Rosa Bridge, are in Marikina River, one of the main tributaries of the Pasig River. Three (3) stations, Sta. Ana Bridge, Levi-Mariano Bridge, and Buting Bridge, are in Taguig-Pateros River while Sevilla Bridge is the lone station in San Juan River. In addition, three (3) stations namely Guadalupe Viejo, Guadalupe Nuevo, and Havana Bridge, are in the minor tributaries that are directly draining to the Pasig River.

The monitoring is done using two methods – in-situ water quality monitoring and collection of water samples for laboratory analysis. Field data observations such as weather conditions, river flow characteristics, the existence of wildlife, and the presence of garbage are also recorded during the activity. The sampling procedure follows the protocols indicated in the DENR – Environmental Management Bureau (EMB) Water Quality Monitoring Manual Volume 1. Meanwhile, laboratory analyses are in accordance with the prescribed methods in the DENR Memorandum Circular (MC) 12 Series of 2016 pursuant to the DENR Administrative Order (DAO) 2016-08 Water Quality Guidelines and General Effluent Standards of 2016. (**See annex I, Table 42** for the stations being monitored by the PRCMO and while **Tables 43-46** for the matrix of general observations and the results obtained for the third (3rd) quarter of 2024 PRUMS)



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In summary, the primary parameters where the 19 PRUMS stations passed the Class C and SB guidelines are as follows:

Parameter	Frequency	Percentage of stations that passed the Class C and SB
BOD	9 out of 18*	50.00
DO	2 out of 19	10.53
Fecal Coliform	0 out of 19	0.00
TSS	13 out of 19	68.42
Nitrate	19 out of 19	100.00
Phosphate	0 out of 19	0.00
Color	18 out of 19	94.74
Temperature	19 out of 19	100.00
pH	19 out of 19	100.00
Ammonia	0 out of 19	0.00

Note: * Manila Bay was not included since there is no Class SB guideline for BOD

Most of the water parameters including BOD, TSS, Fecal Coliform, Phosphate, Temperature, pH, and Ammonia have decreased this Third (3rd) quarter 2024 monitoring compared to the previous quarter monitoring. The recent monitoring activity conducted across various water bodies revealed a mixed but generally slightly encouraging trend in water quality, alongside significant pollution challenges. There are notable decreases in Biochemical Oxygen Demand (BOD) and increases in Dissolved Oxygen (DO). However, the on-going river widening, dredging activities, sheet piling in Marikina River and the significant presence of various types of garbage, such as plastics, polystyrene, and kitchen waste, particularly at stations like Havana and Sevilla Bridge, contributes to high Total Suspended Solids (TSS) in Marikina River and minor tributaries.

Moreover, the observed discharge of wastewater and stormwater runoff in the Taguig-Pateros and Main Pasig River introduces nutrients like nitrates, which have increased, potentially leading to eutrophication. Conversely, phosphate levels have decreased, which is a positive development; however, the persistence of nutrient pollution remains a concern.



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Based on the CY 2009 to 2024 monitoring, the fecal coliform count at the main Pasig River has further decreased this 2024 monitoring. Furthermore, compared to the 2023 monitoring, the fecal coliform count at the main Pasig River reduced from 266,982.55 MPN/100mL to 173,443.29 MPN/100mL which is equivalent to a **35% reduction** indicating a significant improvement in the water quality of the Pasig River. Meanwhile, the Biochemical Oxygen Demand (BOD) concentration at the main Pasig River also decreased compared to the 2023 data.

Nonetheless, it was observed that based on historic periodic data, the overall water quality of the Pasig River, on an annual average, has continuously improved.

3.1.2 WATER QUALITY MONITORING OF 47 PASIG RIVER TRIBUTARIES

The Pasig River System is composed of 47 identified tributaries which are grouped into five (5) clusters based on their geographical location. These tributaries are located within the cities of Manila, Marikina, Pateros, Quezon City, San Juan, and Taguig. These waterways are monitored to determine the improvement or deterioration of their water quality. Moreover, the generated data will also aid in crafting the plans and programs for the rehabilitation of the Pasig River System and will also be used to quantify the effect of the different rehabilitation programs and projects implemented.

This CY 2024, 87 stations out of 122 stations have been monitored along the 47 tributaries.

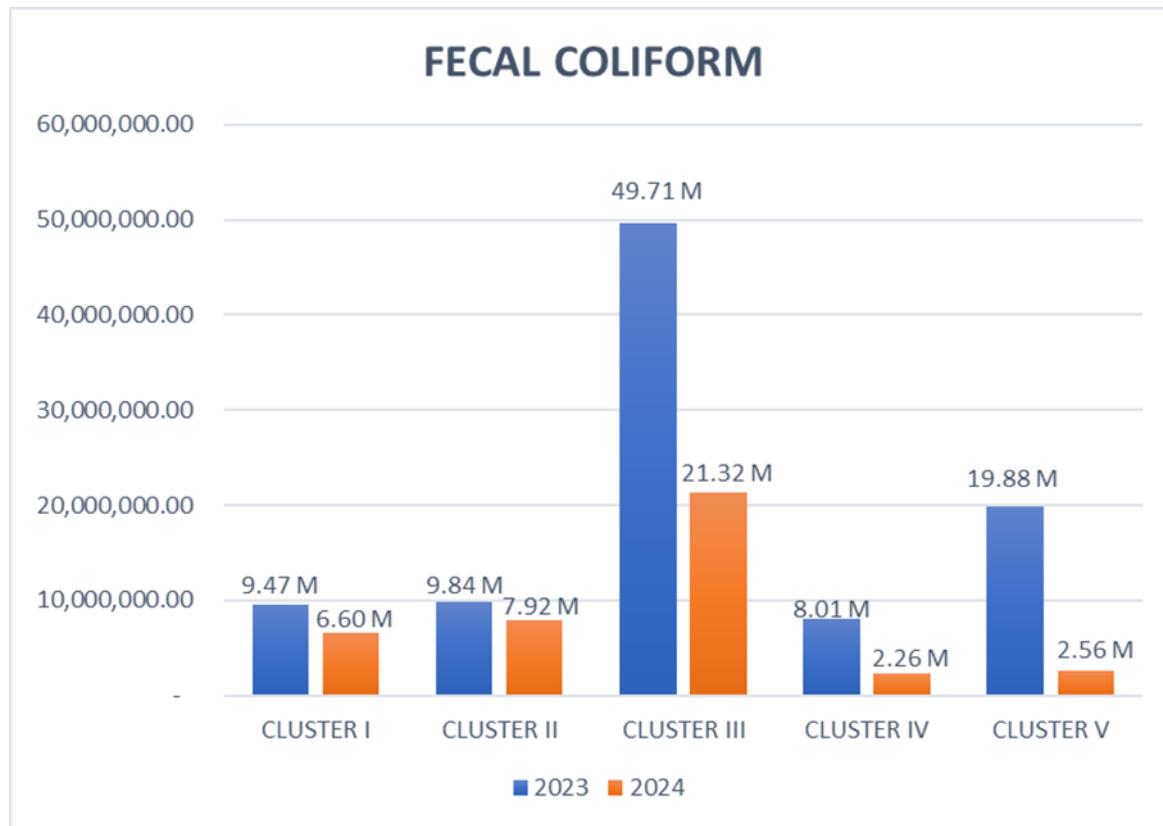


Figure 299. CY 2023 and CY 2024 Average Fecal Coliform Count at the Five (5) Clusters



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Table 27 shows the esteros with the highest fecal coliform count (MPN/100mL). Estero de Santa Clara which is located in Cluster 4, reflected the highest fecal coliform count among the 47 identified tributaries this CY 2024 monitoring. On the other hand, a significant reduction was observed in all tributaries belonging to the top 10 highest fecal coliform count except the Tripa De Gallina with a slight increase. This reduction could be attributed to the continuous implementation of rehabilitation programs in these priority tributaries which includes regular clean-up operations, survey and saturation of commercial establishments, as well as the implementation of bioremediation projects.

Table 42. Esteros with the highest fecal coliform count (CY 2024)

Estero		Fecal Coliform Count (MPN/100mL)
1	Estero de Santa Clara	47,797,760.21
2	Maytunas Creek	35,000,000.00
3	Tripa de Gallina	20,912,722.71
4	Guadalupe Nuevo Creek	18,952,548.88
5	Talayan Creek	14,859,340.49
6	Estero de Maypajo	14,553,607.24
7	Diliman Creek	12,295,885.11
8	Estero de Paco	11,621,433.37
9	Balisampan Creek	11,588,787.68
10	Buhangin Creek	11,384,199.57

3.1.3 BIODIVERSITY ASSESSMENT STUDY OF THE PASIG RIVER

Levelling-off Meeting

On February 2, 2024, the second Technical Working Group (TWG) meeting took place at the ERDB conference room and via Zoom. Attendees included TWG members, representatives from DENR-NCR-PRCMO, and the Philippine Coast Guard (PCG). Discussions focused on the dry season sampling schedule, logistics, budget updates, and other relevant topics. A meeting report was submitted to the ERDB Director. Additionally, meetings were held on February 27 with PCG representatives and administrators from linear parks, including those from the Polytechnic University of the Philippines (PUP), Arroceros Forest Park, and the Taguig City Administrator's Office.



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Dry Season Sampling

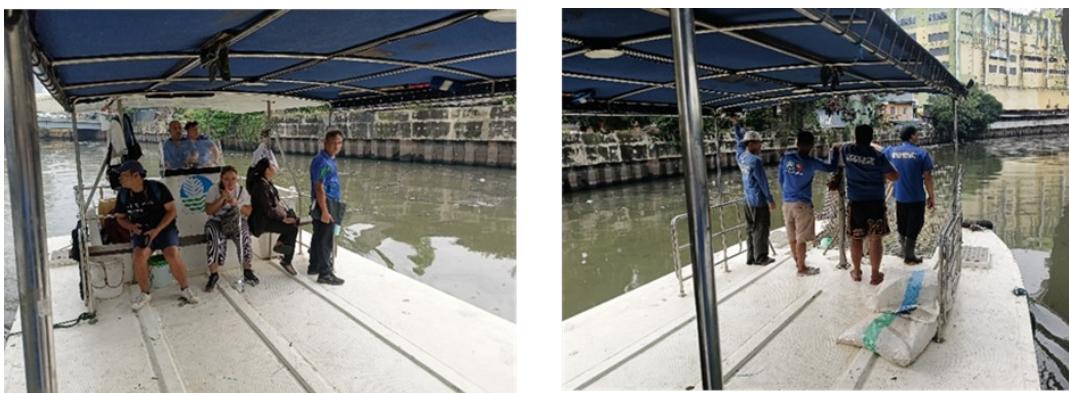
Dry season sampling was conducted from March to April 2024, encompassing both the major and minor tributaries of the Pasig River. This comprehensive study included surveys of plants, animals, aquatic organisms, and sediments. The assessment identified a diverse range of plant species along the Pasig River and its tributaries, highlighting the area's ecological richness. The fauna survey revealed a variety of species well-adapted to urban environments. Additionally, the study placed significant focus on aquatic organisms, including plankton and macroinvertebrates, to provide a detailed understanding of the river's ecological dynamics.



Figure 279. Dry season sampling

Wet Season Sampling

Wet season sampling was conducted from July to August 2024, following the same methodology as the previous season. The same components were identified at each site. The finalization of write-ups is scheduled for completion in November. All related data, including information on interventions implemented by other agencies, have been consolidated to facilitate a comprehensive analysis of the data collected across both seasons.





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3.1.4 WATER QUALITY IMPROVEMENT PROJECTS

Phytoremediation Project in the form of *Floating Wetland Units* (FWU) is one of the initiatives implemented by Pasig River Coordinating and Management Office (PRCMO) through Water Quality and Waste Management Division (WQWMD) to improve the water quality of selected tributaries of Pasig River for the year 2024. The selected minor tributaries were Estero de Valencia, Estero de Kabulusan, Estero de Concordia, and Estero de Pandacan. This project was later on transferred its administration to the barangay covering the area where the FWU had been installed.

Transfer of Floating Wetland Units from Estero de Valencia to Estero de Concordia

The Department of Public Works and Highways - North Manila District Engineering Office (DPWH-NMDEO) requested the transfer of floating wetland units from Estero de Valencia to Estero de Concordia to facilitate the construction of a retarding basin (Phase VIII). The relocation occurred on April 18 and 19, 2024. The River Warriors began disassembling units by removing cable ties and lifting them onto the banks. Defective units, identified by cracks, leaks, discoloration, or dead plants, were stockpiled and loaded onto a Mini Dump Truck (MDT). On the first day, 48 defective units were transferred in two batches. On the second day, trimmed units were loaded to optimize space, with 75 units transferred in two loads. In total, 123 floating wetland units were relocated: 48 defective units and 75 trimmed units. The successful transfer was achieved through collaboration between WQWMD, EED, barangays, and other stakeholders.



Figure 281 Transfer of Floating Wetland Units from Estero de Valencia to Estero de Concordia



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Coordination Meeting with the Barangays for the Transfer of Administration of Phytoremediation Project

Coordination meetings were conducted in each barangay within the areas where the floating wetland units had been installed. These meetings aimed to inform the communities about the benefits of the project and discuss the potential transfer of project administration to them. Five (5) barangays participated in these discussions: Barangay 157 for Estero de Kabulusan in Tondo, Manila; Barangays 827 and 831 for Estero de Concordia in Paco, Manila; and Barangays 832 and 848 for Estero de Pandacan in Pandacan, Manila. All barangays expressed their agreement to accept and continue the project.



Figure 282 Coordination Meeting with the Barangays for the Transfer of Administration of Phytoremediation Project

Monthly Monitoring Inspection and Maintenance of Floating Wetland Units

Monthly monitoring inspections and maintenance activities were conducted at the three (3) selected tributaries with the support of our environmental aides, also known as River Warriors. These inspections are a vital component of the project's sustainability, focusing on evaluating the condition of the units to identify early signs of damage, such as cracks, discoloration, or leaks, and addressing the accumulation of debris and solid waste. The maintenance activities prioritized controlling excessive plant growth, removing solid waste, and ensuring the stability of the installed units. All observations made during these activities were thoroughly documented.



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Figure 283 Transfer of Floating Wetland Units from Estero de Valencia to Estero de Concordia

Meeting with the Barangays for the Transfer of Administration and MOA Signing of Phytoremediation Project

The project was subsequently transferred to the aforementioned barangays that had previously agreed to its continuation. This transfer was formalized through the signing of a Memorandum of Agreement (MOA), further strengthening the partnership between both parties. Under the agreement, the barangays will oversee the administration of the project, with the exception of major concerns such as significant repairs or the replacement of plants, which will remain outside their scope of responsibility.



Figure 284. Meeting with the Barangays for the Transfer of Administration and MOA Signing of Phytoremediation Project

3.1.5 COORDINATION MEETING WITH THE EMB-NCR

A quarterly meeting with the EMB-NCR was conducted to address key topics such as the Memorandum of Agreement (MOA) for FY 2024 and 2025 regarding the laboratory analysis of samples from the Pasig River Systems. The agenda also covered the downloading of funds, discussion of work and financial plans, scheduling of water sampling activities, and other related concerns.



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3.1.6 PROFILING OF WATERWAYS

The PRCMO conducted the river profiling: inventory of establishments in the **20** tributaries of the Pasig River System, with a total of **1,295** commercial and industrial establishments recorded from February to September 2024. Majority of the establishments recorded were **commercial establishments** (multi-use buildings, retail, offices, malls, and food establishments). The gathered data are then cross-checked to the Laguna Lake Development Authority (LLDA) database to identify its compliance to environmental permits.

3.1.7 ANALYSIS OF WATER QUALITY DATA

Skills Enrichment Workshop on Advanced Data Visualization Tools

On March 20 - 22, 2024, the skills enrichment workshop on advanced data visualization tools was conducted in order to enhance the competencies of the personnel within the PRCMO through comprehending the analysis of various data on the Pasig River System and utilizing technology for the digitalization of data sharing, visualization, and analysis.

This workshop focused on the formulation of a comprehensive dashboard using Power BI and other features such as Pivot Table, SQL, and Data Analysis Expressions (DAX), which will greatly help to visualize all the data coming from the Pasig River System including the water quality data, solid waste data, river profiling data, and more.



Figure 285. Skills Enrichment Workshop



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3.2 ENVIRONMENTAL ENFORCEMENT PROGRAM

The Environmental Enforcement Division (EED) consists of two (2) functional units: Field Operations and Easement Monitoring. According to the approved functions from the Department of Budget and Management (DBM), EED is responsible for facilitating programs, projects, and activities aimed at maintaining and sustaining the cleanliness of the Pasig River and its tributaries through regular clean-up efforts. Additionally, EED provides policy improvements/ recommendations/ guidelines that address solid waste-related concerns, in coordination with agencies, local government units, and other stakeholders.

3.2.1 Field Operations Unit

The Field Operations Unit (FOU) is responsible for the regular deployment of its Environmental Aides (EAs) also known as River Warriors to maintain the Pasig River System free from solid wastes and other floating debris by conducting regular and special clean-up operations. Also, the FOU is responsible for the mobilization of its Quick Response Unit (QRT) to immediately address the removal of the big volume of garbage observed in the waterways. Moreover, FOU also conducts coordination and consultation meeting with other agencies such as Local Government Units (LGUs), barangays, and partner agencies/offices to address the issues and concerns observed on site.

Regular Clean-up Activities

The 170 Environmental Aides (River Warriors) are divided into four (4) Clusters, as shown in Table below. They are deployed in twenty-nine (29) waterways of the Pasig River including esteros/creeks and two (2) priority areas in Baseco and Parola, and the main Pasig River and San Juan River to conduct regular clean-up activities. One hundred twenty-eight (128) River Warriors are assigned in the creeks/esteros while forty-two (42) are assigned in the main Pasig River and San Juan River.

For FY 2024, 531,701 sacks, equivalent to 15,951,030 kilograms of solid waste, composed of biodegradable, non-biodegradable, and water hyacinths were collected in the Pasig River and its tributaries. Based on the waste collection data, the Pasig River has the highest volume of sacks collected with 138,033 sacks (4,140,990 kilograms). This can be attributed to the high volume of water hyacinths collected along the Pasig River using the four (4) trashboats deployed in the area. It was followed by the San Juan River with 112,385 sacks (3,371,550 kilograms). The San Juan River becomes a catch basin of solid waste coming from its tributaries namely: San Francisco River, Talayan Creek, Mariblo Creek, Diliman Creek, Kamias Creek, Ermitanyo Creek, Maytunas Creek, and Buhangin Creek.



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B. Special Clean-up Activities and Community Clean-up Drive

Twelve (12) special clean-up activities and four (4) community clean-up drives were conducted for FY 2024. A total of 14,430 sacks or 432,900 kilograms of solid waste were collected from the special clean-up and community clean-up drive activities. The table below shows the summary of special and community clean-up activities.

C. Mobilization of Quick Response Team

The Quick Response Team (QRT) is composed of twenty-three (23) River Warriors who are mobilized to respond to the immediate concerns on the ground such as the massive accumulation of solid waste in various waterways wherein augmentation clean-up activities are being performed.

The QRT conducted fifteen (15) augmentation clean-up activities. During these clean-up activities, a total of 50,505 sacks (1,515, 150 kilograms) were collected. Table below shows the summary of the activities performed by the QRT for FY 2024.

D. Hauling Operations

The PRCMO utilizes two (2) mini dump trucks to haul, transport and dispose of the collected solid waste in an accredited disposal facility in Navotas Sanitary Landfill (NSLF) in Vitas, Tondo, Manila. Also, the Department of Public Service (DPS) – Manila, the Metropolitan Manila Development Authority (MMDA), Quezon City Department of Sanitation and Cleanup Works, and San Juan City assisted the PRCMO in hauling and disposal operations.

For FY 2024, a total of 219,495 sacks (6,584,850 kilograms) of solid waste were hauled and disposed of by the PRCMO as shown in Table below.

E. Monitoring and Installation of Engineering Interventions

The EED fabricates and installs trash traps in various strategic waterways in order to prevent floating solid wastes from reaching into the waters of the Pasig River and the Manila Bay (figure 5). Also, it allows easier collection of trapped solid waste along the tributaries of the Pasig River.

The table below shows the list of all the installed trash traps of the PRCMO. A total of twenty-nine (29) trash traps are installed in at least sixteen (16) waterways which are made from pet bottles, plastic, bamboo and trash booms. Thirteen (13) of the installed trash booms were donated by the Rotary Club of Manila in 2023 and three (3) were from River Recycle Philippines. (See annex II, Table 34)



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F. Coordination Meetings

Various coordination and consultation meetings were conducted in order to harmonize the collaborative efforts of PRCMO, LGUs, and other partner barangays and offices to facilitate an effective dialogue with the communities (Figure 6). For FY 2024, a total of twenty (20) coordination meetings were conducted for FY 2024.

Various coordination and consultation meetings were conducted to harmonize the collaborative efforts of PRCMO, LGUs, and other partner barangays and offices, facilitating effective dialogue with the communities. For FY 2024, a total of twenty-one (21) coordination meetings were held is listed below:

1. Courtesy visit and meeting at Barangay San Pedro, Municipality of Pateros to discuss the solid wastes and other issues and concerns in their area (January 11, 2024)
2. Coordination meeting with Barangay 848, Pandacan Manila to discuss the observed issues and concerns in their barangay (January 29, 2024)
3. Coordination meeting with Chairman Francisco De Leon of Barangay Pineda, Pasig City (February 6, 2024)
4. Coordination meeting with Barangay Chairman Alvin Alonzo of Barangay Balong Bato, San Juan City (March 12, 2024)
5. Coordination meeting with Barangay Chairman Ramon Pingol of Barangay 634, Manila City (March 6, 2024)
6. Coordination meeting with Manila Bay Site Coordinating and Management Office (MBSCMO) to discuss the sources of solid waste in Estero de Sunog Apog (April 19, 2024)
7. Inter-Agency meeting with MMDA, DPS Manila, MBB, EMB-NCR and DILG-NCR regarding the obstructions along San Francisco linear park and request for hauling assistance (April 30, 2024)
8. Coordination meeting with Brgy Magtanggol, Panday Pira Creek (May 15, 2024)
9. Coordination meeting with Brgy 55, Estero dela Reina (May 15, 2024)
10. Coordination meeting and courtesy visit with PCG at PCG Sub-Station Nagpayong, Pasig City to discuss PRCMO's request for CCTV access (June 6, 2024)
11. Coordination meeting with Mr. Jessie Fortun of Laguna Lake Development Authority (LLDA) requesting for water hyacinth data of hotspot areas (June 6, 2024)
12. Coordination meeting with Barangay 677 of Estero de Paco, Manila to discuss the issues and concerns observed in their barangay (July 5, 2024)



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13. Coordination meeting with Barangay 739, Malate Manila, Estero de Tripa Gallina (August 5, 2024)
14. Coordination meeting Chairwoman Diana Espinosa of Brgy. 649, Baseco Manila to discuss the ISFs stilt houses extension along Baseco Pasig River side (August 16, 2024)
15. Coordination meeting with EMB-NCR and MEO West re: Status of installed trash traps along Pasig River System (Sep 13, 2024)
16. Coordination meeting with MMA MPCG re: assistance in the clearing operations along legal easements of Pasig River System (Sep 12, 2024)
17. Coordination meeting with Barangay 832, City of Manila (October 8, 2024)
18. Coordination meeting with Barangay 827, City of Manila (October 8, 2024)
19. Initial Coordination meeting with MEO East RPOs re: deployment of Estero Rangers and River Warriors within Quezon City areas (Nov 19, 2024)
20. Coordination and follow-up meeting with MEO East Director Engr. Edralin Licuan re: final deployment of ERs and RWs at Quezon City waterways (December 9, 2024)
21. Coordination meeting LLDA Task Force Water Hyacinth representative (Mr. Jose Salandanan) to discuss the accomplishments and updates of PRCMO water hyacinth collection activities and initiatives (December 12, 2024).

Photos of the coordination meetings conducted for FY 2024.



Figure 287. Photos of the coordination meetings conducted for FY 2024.



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G. Capacity Building for Environmental Aides (River Warriors) and Local Government Units within the Pasig River System

1. Conduct of capacity building for Environmental Aides entitled “Environment, Health and Safety Awareness (EHS) Training (April 23-24, 2024)

The activity aimed to empower participants with the principles of Occupational Health and Safety Standards (OSH), which are crucial in fulfilling their duties and responsibilities in promoting worker well-being and preventing workplace accidents and hazards. The Environmental Aides also referred to as River Warriors, play a crucial role to the continuous restoration efforts of the Pasig River System. Despite facing daily risks and hazards, they persist in delivering high-quality services geared towards enhancing the environment, especially our waterways, for improved living conditions. The training focused on equipping them with the skills to identify, assess, and prevent potential accidents and dangers in their workplace.

2. Conduct of capacity building for the LGUs of Pasig River System entitled “Pollution Management Appraisal” (May 29, 2024)

The training introduced the learners to the concepts of identifying sources of pollution, whether they are industrial, agricultural, or residential, and assess the extent of their impact on the environment. Based on the appraisal findings, specific targets and objectives can be established to reduce pollution levels, improve environmental quality. The capacity building on Pollution Management Appraisal achieved the following: a.) Introduced the Pollution Management Appraisal and its importance; b.) Familiarized with the procedures and process in the conduct of Pollution Management Appraisal; and c.) Familiarized with the concepts of Environmental Management Accounting.

H. Other Accomplishments

1. Inspection and ground survey of water hyacinth hotspot areas within the Pasig River System (July 6, 2024)

Eight (8) waterways within the Pasig River System and near Laguna Lake were inspected and identified as water hyacinth hotspot areas.

2. Inter-agency meeting with MEO South and East, MMDA, LLDA, and DPWH was held on July 30, 2024 and site validation of hotspot areas on August 2, 2024 with MEO- South and MEO- East

To address the significant accumulation of water hyacinths in the Pasig River System. An inter-agency meeting and site validation were also conducted on July 30 and August 2, 2024, respectively.



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3. Inspection along Pasig River and San Juan River to determine the possible sources of scattered solid wastes (May 23, 2024)

Based on the observations during the inspection, the possible sources of the huge volume of garbage in the Pasig River on May 20-22, 2024 are as follows:

- Mainly came from the San Juan River. Heavy rainfall occurred in the afternoon preceding these days, causing faster water flow, which led to the movement of garbage stocked up in some waterways in the upstream portion of San Juan River. However, on May 23, 2024, fewer garbage was observed compared to the previous days, possibly because there were no rains.
- Some of the floating solid waste is blocked by the parked barges and abandoned vessels that emerge when the river's water current is fast.
- During high tide, the garbage trapped and accumulated under the encroachments and stilt houses overflows onto the riverbanks of Parola and BASECO, causing light solid wastes such as plastics to float and flow with the water into the Pasig River.
- The inspection covers from downstream (Parola and Baseco) up to Mandaluyong City.

4. Inspection of junkshops and wet markets along San Juan River and its tributaries (July 15-19, 2024)

An inspection of junkshops and wet markets along San Juan River and its tributaries was conducted by the Environmental Enforcement Division of PRCMO.

- The inspection covered four (4) days from July 15-19, 2024. A total of 31 areas in eight (8) waterways were inspected including the San Juan River, Maytunas Creek, Ermitanyo Creek, Talayan Creek, Mariblo Creek, Diliman Creek, Pasong Tamo Creek, and Culiat Creek.
- The inspection team is composed of Technical Personnel from the Environmental Enforcement Division (EED) which are tasked to identify the possible sources of solid waste accumulated in the downstream section of the San Juan River which directly drains into the Pasig River.
- The inspection team conducted a site validation of wet markets and junkshops located near the aforementioned waterways to determine if these establishments significantly contribute to solid waste accumulation in the downstream portions of San Juan River
- Based on the results of the inspection, specific sources/location of solid waste along San Juan River were not identified, except for the significant waste observed in Balintawak Market along Talayan Creek. It is important to note that the inspection took place during the rainy season, which could have influenced the findings. During this period, increased water flow can rapidly carry solid waste



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5. Workshop on Disaster Preparedness and FY 2024 Year End Assessment of Environmental Aides
(November 20-21, 2024)



Figure 288. Workshop on Disaster Preparedness

The workshop and assessment event were attended by a total of 170 Environmental Aides, divided into four (4) clusters, all of whom are deployed along the Pasig River System, to maintain the cleanliness of the waterways and meter legal easement. Additionally, 30 representatives from the Environmental Enforcement Division (EED) and the Department of Environment and Natural Resources (DENR) NCR were present to facilitate the event.

The activity successfully introduced and equipped the participants with knowledge about various natural disasters, including typhoons, storm surges, earthquakes, volcanic eruptions, and landslides, as well as man-made disasters such as arson, oil spills, terrorism, and biological threats.

The second part of the activity focused on the year-end assessment of the Environmental Aides, also known as River Warriors, who have been instrumental in the ongoing rehabilitation and development of the Pasig River System.



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The assessment workshop included an evaluation and an open forum, providing an opportunity to identify and discuss the various issues and challenges they faced while fulfilling their duties and responsibilities.

6. Training on Basic Operation of Trash Skimmer Collector of EMB-NCR and DOST-MIRDC at Cardona, Rizal (December 2-6, 2024)



Figure 289. Workshop on Disaster Preparedness

The PRCMO EED consists of five (5) office-based and five (5) field-based personnel attended the specialized basic training on the operation of a floating trash collector system of the EMB-NCR. The five-day training, facilitated by the Department of Science and Technology- Materials Industry Research and Development Center (DOST-MIRDC), was held in Laguna de Bay, in the Municipality of Cardona, Rizal. The training successfully equipped the participants with the necessary skills for the proper handling and operation of the trash collector system. The trash collector system will be handed over to the DENR-NCR which can provide significant support for the clean-up operations along the Pasig River.



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3.2.2 EASEMENT MONITORING UNIT

The Easement Monitoring Unit (EMU) focuses on two (2) components: the Habitat and Resource Management and Protection and Easement Delineation and Recovery. The Unit is responsible for regularly maintaining, protecting, and monitoring the twenty-two (22) developed easements and linear parks along the Pasig River System previously established by the defunct Pasig River Rehabilitation Commission (PRRC).

Also, the Unit is responsible for enhancing various cleared easements that can be developed into a linear park. This initiative serves as a buffer zone for the safety of the communities, river protection, and reduction of direct waste discharge into waterways, as well as provides recreation and tourism activities.

Further, the Unit is responsible for the fabrication and installation of various engineering interventions such as trash traps, perimeter fences, and staging areas along strategic locations to aid in the easier and safer collection of floating solid waste and minimize and even eliminate the legal disposal of residential solid wastes along waterways.

Lastly, the Unit through its Survey Team is responsible for the establishment of ground control points, facilitation of drone and ground surveys, and the demarcation of legal easements of the tributaries of the Pasig River to effectively identify encroachments along waterways such as informal settler families (ISFs) and to be able to endorse such concerns to the concerned offices/agencies for appropriate action in reference to the provisions of the Presidential Decree No. 1067 or the Water Code of the Philippines.

Monitoring of developed easements and linear parks

EMU is responsible for the **monitoring, repair, maintenance and protection of easements and the twenty-two (22) established linear parks** along the Pasig River System. These linear parks were developed during the time of the Pasig River Rehabilitation Commission (PRRC) as part of its initiatives to establish Environmental Preservation Areas (EPAs) along riverbanks in the form of linear parks, walkways, greenbelts, and revetment/parapet walls along the three to ten-meter easement of the Pasig River System. This initiative serves as buffer zones for the safety of the community, river protection, and reduction of direct waste discharge into waterways, as well as provides recreation and tourism activities.



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Figure 290. Monitoring of developed easements and linear parks

One of the key findings of the regular inspection activities is the observed illegal construction of structures along waterways. At least **three (3) waterways were identified with ongoing construction of structures along the legal easement**: San Francisco River (Brgy. Talayan), Estero de Maypajo, and Estero de Valencia. Various communication letters were endorsed to the Office of the City Mayor of Quezon City and Manila City citing the concern particularly the violations of said projects in Presidential Decree No. 1067 or the Water Code of the Philippines which enforces the legal easement along waterways of at least three (3) meters



Figure 291. Inspection of projects being constructed along the legal easement of waterways

B. Repair, maintenance, and protection of developed easements and linear parks

Seven (7) easements and linear parks were rehabilitated. Various greening and beautification activities were completed, including repainting path walks, perimeter walls, and repairing damaged concrete path walks and plant boxes. The table below shows the linear parks that were rehabilitated as well as the photo documentation.

Table 54. List of rehabilitated linear parks

No.	Name of Waterway/Linear Park	Coverage
1	Estero de Paco (Barangay 686)	January 29 to February 15, 2024
2	Estero de Paco (Barangay 684 and 683)	February 20 to March 15, 2024
3	Estero de Paco (Barangay 736 and 735)	May 09 to May 22, 2024
4	Estero de Magdalena	June 20 to June 28, 2024
5	Estero de Pandacan	August 09, 2024
6	Estero de Sampaloc (Barangay 637 and 634)	August 13 to August 30, 2024
7	Estero de Sampaloc (Barangay 640)	September 09-23, 2024



Figure 291. Repaired and maintained linear parks along the tributaries of the Pasig River



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FY 2024 Linear Park Enhancement Project

Under its FY 2024 Current Appropriation, the PRCMO has a Php. 3,000,000.00 budget allotment for the establishment of new linear parks along the Pasig River System. For this year, the target waterway to be developed is the Taguig-Pateros River located in Barangay Aguho, Pateros, Metro Manila. The project site has an estimated area of 150 linear meters or 450 square meters and was completed on September 30, 2024. Various ornamental plants and trees were planted such as Ilang-ilang, Balibitan, Talisay trees, as well as various Pandakaki, Raphis, and Santan.

The newly established linear park along the legal easement of Taguig-Pateros River serves as a buffer zone for the community's safety, river protection, and aid in the reduction of direct waste discharge into the river. It also provides recreation and tourism activities for the Municipality of Pateros.

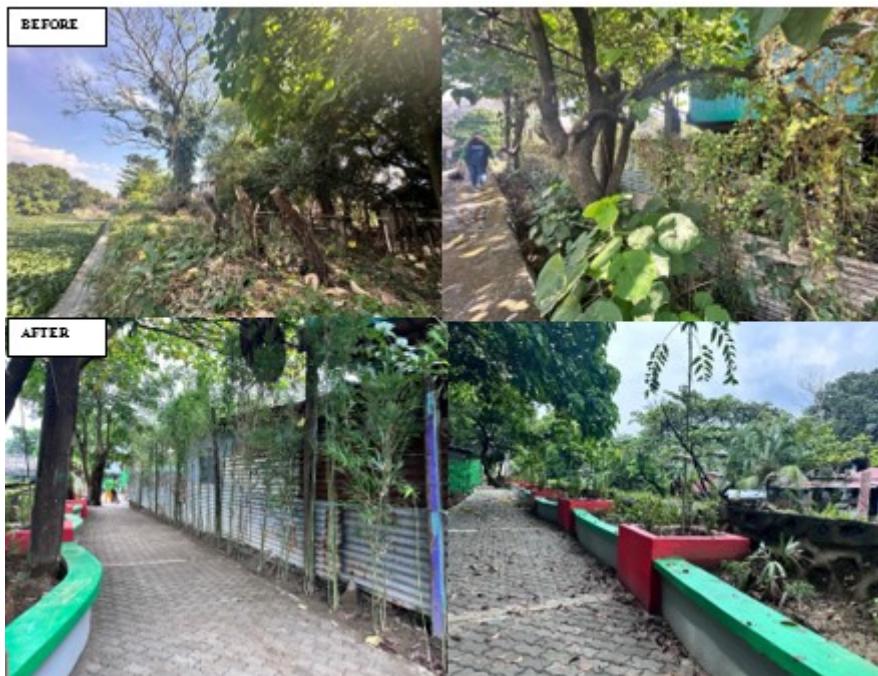


Figure 293. Newly established linear park along Taguig-Pateros River, Barangay Aguho, Pateros



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Easement Delineation and Recovery

The Unit through its Survey Team is responsible for the establishment of ground control points (GCPs), facilitation of drone and ground surveys, and the demarcation along the legal easements of the Pasig River System to identify encroachments along waterways such as informal settler families (ISFs).

For FY 2024, the Unit **completed the drone and ground activities along three (3) waterways** including Estero dela Reina, Estero de Kabulusan, and Estero de San Lazaro. As of November 30, 2024, the Unit is still completing the preparation of all Completed Staff Work (CSW) including the processing of data and map generation. Once completed, all CSWs shall be submitted to the DENR – Central Office for its official endorsement to the appropriate office/agency such as the National Housing Authority (NHA) and the Department of Human Settlements and Urban Development (DHSUD) for its appropriate action on the identified ISFs along the legal easement.

Specifically, a total of **2.899 kms.** were demarcated for **Estero dela Reina** and **1.574 kms.** for **Estero de Kabulusan**. Presently, the Unit is finalizing the processing of static survey data to determine the actual length of demarcated easements for Estero de San Lazaro.

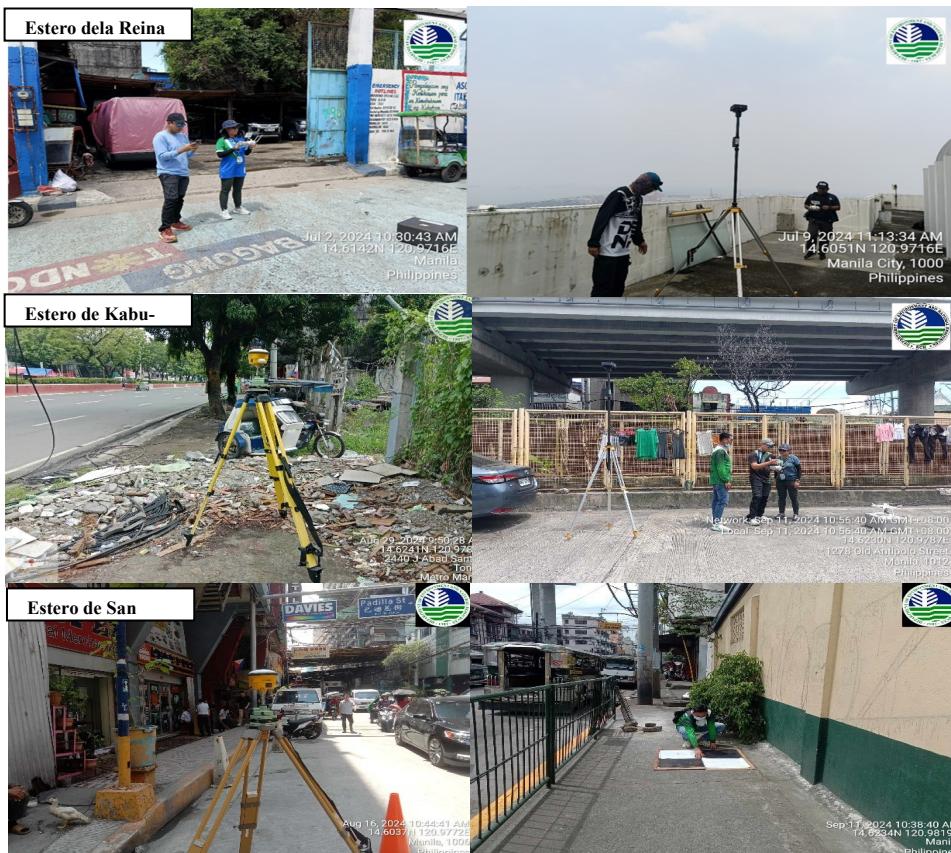


Figure 294. Various survey activities along the tributaries of the Pasig River

E. Fabrication and Installation of Staging Areas along waterways

To ensure the easier and safer collection of solid waste along waterways, the Unit prioritizes the installation of staging areas along waterways that are steep and has no area for drying of collected sites which is required before being transported to the disposal site.

For FY 2024, a total of **seven (7) staging areas were established** along the following waterways: Estero de Binondo, Estero de Tripa Gallina (2 locations), Estero de Pandacan, Estero de Sunog Apog, Estero de Vitas, and Estero de San Miguel.



Figure 295. Fabricated and installed staging areas or platforms along waterways

F. Fabrication and installation of trash traps along strategic locations

Two (2) trash traps were installed along strategic areas of the Pasig River on September 18, 2024, particularly along Mac Arthur Bridge and Padre Jacinto Zamora Bridge. This intervention effectively traps solid waste including water hyacinths from entering other tributaries of the Pasig River and the Manila Bay. It also allows the easier collection of floating solid waste by the Environmental Aides of the PRCMO.



Figure 296. Installed trash traps along the stretch of the Pasig River

G. Tree Inventory and Risk Assessment along waterways' easement and linear parks

The Unit facilitated monthly Tree Inventory and Risk Assessment (TIRA) to identify the existing trees along waterways and easements and determine if they pose a threat. Such a threat includes the possibility of falling trees during extreme weather conditions (heavy rainfall) which may cause casualty on families residing in the waterways' easement. **Sixteen (16) waterways and easements were inventoried and assessed for hazard potential.** At least **forty-three (43) planted trees were identified with hazardous potential or pose a threat along waterways.**

As part of the actions taken by the Unit, a list of requirements of DENR's tree-cutting permit was given to concerned barangays to facilitate application for the removal of hazardous trees along waterways' easement.



Figure 297. Various tree inventory and risk assessment along waterways (L: Estero de Pandacan, R: Pasig River)



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H. Capacity Building: Training on Survey Procedures on Legal Easement Recovery and Demarcation

Capacity Building: Training on Survey Procedures on Legal Easement Recovery and Demarcation on April 25-26, 2024 A training on survey procedures on legal easement recovery and demarcation was conducted on April 25-26, 2024. It is a collaboration between the PRCMO, Manila Bay Site Coordinating/Management Office (MBSCMO) and Surveys and Mapping Division (SMD). The training was able to introduce and familiar the learners with the concepts and processes involved in gathering survey data on the ground with the use of different surveying instruments within the project site. Two (2) topics were mainly discussed: Introduction to Global Navigation Satellite System (GNSS) Survey and Concepts of Remotely Piloted Aircraft (RPA).

Table 55. Policy and Implementation Issues and Actions Taken

Challenges Encountered	Action Taken	Way Forward
1. Construction of structures of other offices/entities along the 3-m legal easement of various tributaries of the Pasig River.	Endorsed letters to concerned LGUs copy furnished the DILG informing its violation to PD 1067 or the Water Code of the Philippines	To re-visit and coordinate with the identified LGUs/barangays with projects being implemented along the legal easement of various waterways to ensure that they have already complied with the provisions of PD 1067 or the Water Code of the Philippines.
2. Trees that poses threat along waterways and easement	Provided a copy of the list of requirements for the application for a cutting permit to certain	For validation with the concerned barangays if they have already applied for a tree-cutting permit.
3. Encroachment and obstructions along the 3-m legal easement of waterways.	An initial coordination meeting between the PRCMO and MMDA was conducted to discuss issues encountered along the legal easement of waterways. Initial coordination with the DENR-Central Office particularly the Office of the Assistant Secretary for Legal Affairs and Enforcement for the assistance in the removal of obstructions and encroachments along the easement.	To conduct convergence meeting with Manila City Engineering and DILG-Manila to discuss plans and strategies for the removal of encroachments and obstructions along waterways in collaboration with other concerned agencies/offices by the 1 st Quarter of FY 2025. To endorse list of ISF data to DENR Central Office,



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3.3 SUPPORT TO OPERATIONS

3.3.1 Rehabilitation, Protection and Sustainment: Advocacy & Institutional Partnership and Education

The PRCMO's Public Information and Advocacy Unit (PIAU) acts as the communication arm of the Office and provides the general public with information on the priority programs, projects, and activities to heighten awareness on the rehabilitation of the Pasig River System and elicit the needed support and engagement for its success through timely and accurate information dissemination and socially-relevant communication, education, and public awareness (CEPA) campaigns.

Among the activities spearheaded by the Unit include the conduct of CEPA activities such as Dalaw Turo and Pasig River Educational Tours, conduct of activities in support of national and international environmental events, production of information, education, and communication (IEC) materials, and partnerships with various stakeholders.

Conduct of Communication, Education, and Public Awareness (CEPA) Activities: Dalaw Turo and Pasig River Educational Tours

A total of twenty-four (24) CEPA activities were conducted in FY 2024, which include the "Dalaw Turo," a lecture-forum intended for community leaders and junior high school to college students from barangays and schools along the Pasig River System, followed by Pasig River Educational Tours to serve as experiential learning for the participants. The activities aim to showcase the efforts of the government on the Pasig River Rehabilitation Program, in collaboration with relevant stakeholders, and to highlight the significant improvements in the overall state and condition of the Pasig River.



Figure 298. (From left) Dalaw Turo at Benigno "Ninoy" Aquino High School, Taguig City and Pasig River Educational Tour with CIIT College of Arts and Technology



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Conduct of CEPA Activities in support of Environmental Events

In furtherance of the CEPA programs of the Office, various activities in celebration of national and international environmental events were also conducted in collaboration with concerned stakeholders. The table below shows the activities spearheaded by the PRCMO for FY 2024:

Table 56. 2024 CEPA Activities in support of National and International Environmental Celebrations

Environmental Event	Date	Activity
World Water Day and Philippine Water Week, National Women's Month and Girl Child Week	March 25, 2024	Pasig River Educational Tour
Month of the Ocean	May 2024	TikTok Reel-Making Contest on Best Practices/Initiatives of Individuals/Groups on Waste Management, Recycling and River Rehabilitation
World Oceans Day and Coral Triangle Day	June 7, 2024	Multi-stakeholder Cleanup along Pasig River as part of Nationwide Coastal Cleanup
International Coastal Clean-up (ICC) Day	September 21, 2024	Multi-stakeholder Cleanup along Pasig River
International Day of Climate Action	October 19 & 26	Lakbay Ilog: Pasig River Heritage Walk
National Volunteer Month and Manila Bay Day	December 11	Pasig River Educational Tour
	December 14-15	Lakbay Ilog: Pasig River Heritage Walk



Figure 299. (From left) Pasig River Heritage Walk (Dec. 14) and Pasig River Educational Tour (Dec. 11)



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Production of Various Information, Education, and Communication (IEC) Materials

Various IEC materials are also produced by the Unit, in supplement to the Office's communication programs and to strengthen brand awareness and recall among intended audiences and stakeholders.

The photos below show some of the IEC materials designed by the Unit for production and release in the first quarter of FY 2025.



Figure 300. (Clockwise) Customized Advocacy Materials: Shirt, Touchtool Keychain, Laptop Sleeve, and Insulated Tumbler



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Social Media

The Unit also maintains the PRCMO's official social media accounts on Facebook, X (formerly Twitter), and Instagram to give timely and relevant information, news, and updates on the current programs, activities, and projects of the Office.

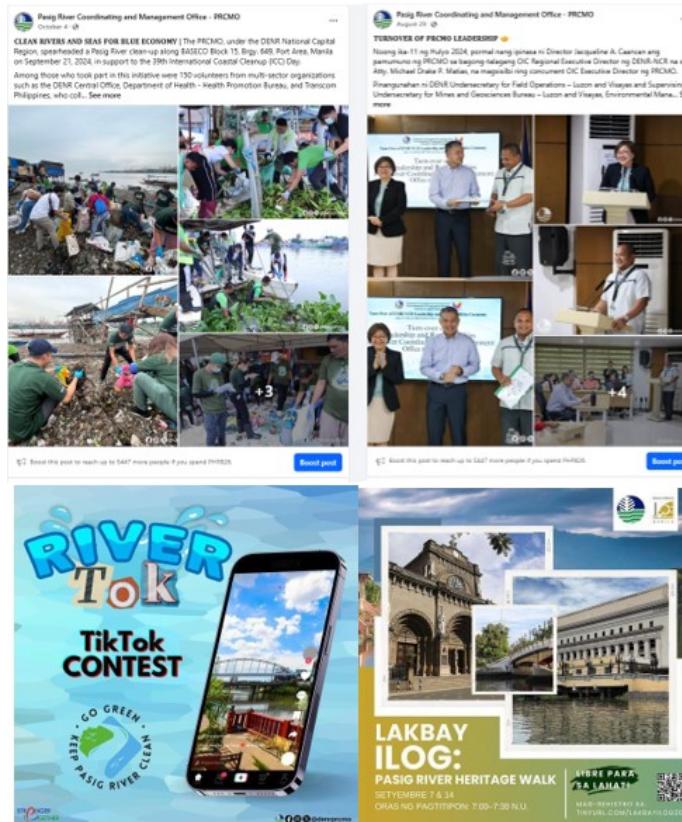


Figure 301. Various Social Media Posts Published by the PRCMO

Ensuring Sustainability through Partnerships with Stakeholders

In 2022, the PRCMO strengthened its partnership campaign “Stronger Together” through successive collaborations with new partners and stakeholders, particularly with civic society organizations (CSOs) for the Adopt-an-Estero program. As of November 2024, the PRCMO has eleven (11) existing partnerships with national government agencies, CSOs, private sector, and the academe. The most recent partnership with the CIIT College of Arts and Technology was formalized through a Memorandum of Agreement (MOA) signing on November 13, 2024.



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Figure 302. MOA Signing with CIIT College of Arts and Technology on Nov. 13, 2024

Below is the list of ongoing Pasig River stakeholders and partners as of December 2024:

1. Innerwheel Club of the Philippines - Manila 101
2. Rotary Club of San Marcelino, Manila
3. RiverRecycle
4. Philippine Coast Guard (PCG)
5. Biodiversity Management Bureau (BMB)
6. Rotary Club Manila (RCM)
7. Rotary Club International D310
8. Various Rotary Clubs (Rotary Clubs of Manila Kalaw, Pasay Cyber City & Manila Diamonds)
9. National Housing Authority
10. Ecosystems Research and Development Bureau
11. CIIT College of Arts and Technology

On December 10, 2024, the PRCMO and its partners on the Pasig River rehabilitation convened for the DENR-NCR Partners Forum and Recognition at Sotogrande Hotel, Quezon City. The event was conceived to present and acknowledge the accomplishments of the DENR-NCR's partner-organizations, specifically its partners in the Pasig River Rehabilitation Program, conduct monitoring and performance review vis-à-vis targeted outcomes and agreements, and discuss ways forward, possible programs and activities for FY 2025, and other interventions for the improvement of each partnership.



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Figure 303. DENR-NCR Partners Forum 2024 on Dec. 10 at Sotogrande Hotel, Quezon City



Figure 304. DENR-NCR Partners Forum 2024 on Dec. 10 at Sotogrande Hotel, Quezon City



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Figure 305. DENR-NCR Top Officials with Representatives from National Housing Authority led by Department Manager A, Ms. Christine P. Firmalino, Resettlement and Development Services Department



Figure 306. DENR-NCR Top Officials with RiverRecycle Oy Philippine Representative, Mr. Fidel Ventura



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3.3.2 Enhancement of the Pasig River Lighthouse

Background

The Pasig River lighthouse, also known as "Farola" (Spanish for "lighthouse"), was the first lighthouse structure in the country when it was built in the 1840s. It was strategically located at the entrance of the Pasig River from Manila Bay, serving as a guide for traders and seafarers and ensuring their safe entry and passage into Manila.

With the advent of radar technology in maritime navigation, the lighthouse was neglected, and by 1992, the structure was replaced with a simpler lighthouse tower. The replacement tower is concrete and cylindrical in shape, with a height of 46 feet (14 m).

At present, the lighthouse is sheltered inside the PCG Farola Base compound as all lighthouses in the country are operated and maintained by the Maritime Safety Services Command of the PCG.

The lighthouse continues to be one of the most prominent landmarks along the Pasig River and its potential for development as a tourist attraction is largely seen and will positively contribute to the ongoing Pasig River Urban Development Project of the government.



Figure 307. Pasig River Lighthouse



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Proposed Enhancement Project

The project will mainly focus on the physical enhancement of the lighthouse and its surrounding area, and shall consist of the following: repainting of the lighthouse tower, installation of lighting fixtures (spotlights and beads light), improvement of gates and surrounding walls and fences, construction of paved walkways, and landscaping.

Objectives:

- To develop and maintain the legal easements along the Pasig River for public use, as enshrined in Presidential Decree No. 1067 or the Water Code of the Philippines;
- To promote the historical significance of the lighthouse and the Pasig River;
- To advance the tourism potential of the lighthouse and the Pasig River; and
- To heighten public awareness on the Pasig River Rehabilitation Program

A site inspection and meeting was conducted on August 7, 2024, to assess the existing physical condition of the lighthouse and its vicinity, in preparation for its proposed enhancement project. In attendance were representatives from the PRCMO and Manila Bay Site/Coordinating Management Office (MBSCMO) of DENR-NCR, Philippine Coast Guard (PCG) District National Capital Region–Central Luzon (NCR-CL) personnel, and representatives from the National Historical Commission of the Philippines (NHCP) and Department of Human Settlements and Urban Development (DHSUD)

The inspection and meeting aimed to harmonize the plans on the lighthouse, which shall be led by the DENR-NCR, and identify the relevant documentary requirements to facilitate the project, such as the Memorandum of Agreement with the PCG, as the lighthouse is under the jurisdiction and care of the PCG.



Figure 308. (From left) Inspection of Pasig River Lighthouse and Area Map



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B. Project Brief

Location: PCG Headquarters, Farola Compound, Muelle dela Industria Street, Barangay 275, San Nicolas, Manila

Partner-Organizations:

- Philippine Coast Guard (PCG)
- National Historical Commission of the Philippines (NHCP)
- Department of Human Settlements and Urban Development (DHSUD)
- Other Members of the Inter-Agency Council for the Pasig River Urban Development (IAC-PRUD)

Total Cost:

- Php3,000,000.00 (Three Million Pesos) Capital Outlay approved under FY 2024 General Appropriations Act

Target Implementation:

- To be accomplished in FY 2025 (under Continuing Fund)

Perceived Benefits:

- Local and community-based tourism will be encouraged and business and livelihood opportunities for surrounding communities will be created
- Improved image and public perception of Pasig River, the City of Manila, and the nearby community
- Increased social capital that will ensure the protection of the country's environment and cultural heritage through education, heightened sense of responsibility, and greater interest and appreciation for the country's tangible and intangible resources



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O P E R S P E C T I V E S

NOTE:
VERIFY ALL DIMENSIONS AND MATERIALS WITH
END-USER PRIOR TO COMMENCEMENT OF WORK
VERIFY DISCREPANCIES BETWEEN DRAWINGS WITH
END-USER PRIOR TO COMMENCEMENT OF WORK

PREPARED BY: MRCMO TECHNICAL UNIT	ENDORSED BY:	RECOMMENDING APPROVAL:	RECOMMENDING APPROVAL:	APPROVED BY:	PROJECT TITLE:	SHEET CONTENT:	A
RALPH D. SIMMENTO MOHAMMAD L. ABUARASHI	VALE C. MARCE	JANE MARIE P. NELLES, MAIRP PROJECT COORDINATOR, PLANNING AND DESIGN SECTION, ENVIRONMENTAL MANAGEMENT DIVISION, DENR-NCR	ENGR. HENRY P. PACIS PROJECT COORDINATOR, PLANNING AND DESIGN SECTION, ENVIRONMENTAL MANAGEMENT DIVISION, DENR-NCR	ERLINDA S. DOUGLAS, EPA ENVIRONMENTAL PLANNING AND DESIGN SECTION, ENVIRONMENTAL MANAGEMENT DIVISION, DENR-NCR	ATTY. MICHAEL DRINKA P. MATIAS DEPUTY DIRECTOR FOR POLICY, PLANNING, AND INVESTIGATION, DENR-NCR	IMPROVEMENT OF PAROLA LIGHTHOUSE FAÇADE AND LIGHTING	- PERSPECTIVES -

3.3.3 Estate Management Activities

For CY 2024, the PRCMO has constantly coordinated with the Department of Human Settlements and Urban Development (DHSUD) and National Housing Authority (NHA) for the proper transfer and turnover of the then Pasig River Rehabilitation Commission (PRRC) Housing Projects namely: 1,000 Housing Project in Villa San Isidro, Rodriguez, Rizal and the Jaime Cardinal Sin Village (728 Housing Project) in Punta, Sta. Ana, Manila City.

As a result, the DENR-NCR PRCMO in collaboration with the DHSUD will be conducting the Formulation of Policies for PRRC's Housing Projects to establish a policy guideline on the estate management and housing administration to address issues and concerns of the beneficiaries and the housing projects.

The NHA has presented and submitted the report on the Occupancy Verification and Affordability Survey (OVAAS), in line with the Memorandum of Agreement (MOA) signed on September 7, 2023, with a downloaded budget of Two Million Four Hundred Eighty-Nine Thousand (PhP2,489,000.00) to collect baseline data of current household occupants, which is beneficial for the objective of transferring the said housing projects to the more appropriate national government agency given that The data acquired from the OVAAS will be utilized to develop housing policies.



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Figure309. Estate Management Activities

3.3.4 Project Monitoring and Supervision

The PRCMO has conducted a Mid-Year Assessment and Complete Staff Work (CSW) Workshop on June 10 & 11, 2024, and a Year-End Assessment and Performance Review, Occupational Safety and Health (OSH), and Project Management System (PMS) Workshop on November 26 to 28, 2024 to effectively assess, evaluate, and ensure the achievement of its annual physical and financial targets concerning its operations and processes for its continuous improvement in FY 2025.

3.3.5 Capacity-Building Activities

The PRCMO has conducted a workshop on Complete Staff Work (CSW) Workshop on June 10 & 11, 2024 at Hive Hotel and Convention Place, South Triangle, Quezon City. The workshop aimed to improve decision-making processes within the organizations, as well as to promote clear communication, collaboration, and accountability among team members, ultimately leading to an increase in organizational effectiveness and efficiency.

Also, on October 9 to 11, 2024 entitled 2024 Stress Management Workshop: Empowering Mind, Body, and Spirit for a Balanced Workplace at Ciudad Christia Resort, San Mateo Rizal was conducted. The activity aimed to equip employees with practical tools and strategies to manage stress, enhance self-awareness, and promote overall well-being.

Lastly, on November 26 to 28, 2024 the PRCMO conducted the Occupational Safety and Health (OSH) and Project Management System (PMS) Workshop at SotoGrande Hotel, Katipunan Avenue, Quezon City. The workshop aimed to provide an overview of protecting the participants from harm while performing their jobs and a comprehensive suite of tools that cater to various aspects of project planning, execution, and monitoring, respectively.



GENDER AND DEVELOPMENT

The Department of Environment and Natural Resources – National Capital Region (DENR-NCR) Gender and Development (GAD) programs and activities for 2024 aim to continue raising awareness and promoting gender equality and the protection of women and children. Below are some of the key initiatives and activities that are part of its Gender and Development (GAD) program, with a focus on the mainstreaming of GAD through the Regional GAD Focal Point System (RGADFPS):

Celebration of National Women's Month Celebration

The Department of Environment and Natural Resources - National Capital Region (DENR-NCR) recognizes the invaluable contributions of women in shaping a fair and equitable society. As we celebrate the National Women's Month in 2024, with the overarching theme "Lipunang Patas sa Bagong Pilipinas; Kakayahan ng Kababaihan, Patutunayan! it is imperative to highlight the indispensable role of women in building a progressive and inclusive nation.

The Women's Month Celebration commenced during the flag-raising ceremony on Monday, March 4, 2024, at the National Ecology Center office of DENR-NCR. Engr. Henry P. Pacis, the in-charge Office of the Regional Executive Director and OIC Assistant Regional Director for Technical Services, led the launching of activities for the month-long celebration of the 2024 NWMC.



Figures 310-312. Kick-off Ceremony of National Women's Month



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COMMUNITY PANTREE FOR JUANA

The DENR-NCR, in collaboration with its Regional GAD Focal Point System and Conservation and Development Division, organized a community pantree initiative aimed at fostering environmental stewardship while empowering women within local communities. This initiative, conducted every Monday throughout March 2024, symbolizes a commitment to sustainable development and gender equality.

By offering free seedlings to women clients, the DENR-NCR not only supports environmental conservation efforts but also empowers women to actively participate in ecosystem restoration and preservation. This hands-on approach not only benefits the environment but also provides women with tangible tools to contribute to their communities' well-being.

PHYSICAL FITNESS ACTIVITY

The DENR-NCR, in collaboration with its Multi-Purpose Cooperatives, organized a dynamic Zumba activity in alignment with the 2024 National Women's Month Celebration (NWMC), aimed at promoting women's health and wellness among its employees.

With a focus on fostering a culture of well-being, female employees were invited to participate in this invigorating Zumba session. The event, held in recognition of the invaluable contributions of women to the organization, served as a platform to prioritize physical fitness and self-care.



Figures 313-314 . Zumba Activity



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INTERNATIONAL WOMEN'S DAY CELEBRATION

On March 08, 2024, the DENR-NCR commemorated International Women's Day with a series of empowering activities aimed at honoring the contributions of women within the organization. Under the theme of "Empowering Women, Empowering Communities," DENR- NCR celebrated the resilience, strength, and achievements of women through various initiatives.



Figure 315. Serbisyo para kay Juana" Officer of the Day

As part of the celebration, DENR-NCR launched the "Sersbisyo para kay Juana" Officer of the Day program. Throughout the day, designated officers provided dedicated assistance and support to female clients, addressing their queries, concerns, and providing guidance on issues relevant to women's welfare.



Figure 316. Distribution of Women's Month Freebies



Figure 317. Free Skin Consultation

In recognition of the importance of self-care and well-being, DENR-NCR arranged free skin consultations exclusively for its female employees. Partnering with skincare experts, the organization provided a relaxing and rejuvenating experience for women to indulge in self-care and pampering. This initiative aimed to promote holistic wellness and emphasize the significance of prioritizing self-care amidst busy work schedules.



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The Regional GAD Focal Point system organized two special film screenings on March 15 and 22, 2024. The chosen movie, "Barbie 2023," served as a touching tribute to the spirit of women's empowerment and resilience. Through the medium of film, attendees were reminded of the importance of embracing diversity, championing inclusivity, and celebrating the achievements of women in all spheres of life. As the credits rolled and attendees departed with hearts full of inspiration, the echoes of "Barbie 2023" continued to resonate, igniting a renewed commitment to advancing the cause of gender equality and empowerment.



Figure 318. Film Showing

For the celebration of National Women's Month and World Water Day this March, the Metropolitan Environmental Office - East and the Metropolitan Environmental Office - North organized an event titled "empowered Rangers: The Power of Women Estero Rangers to the Success of Manila Bay Rehabilitation Program in celebration of National Women's Month and World Water Day" on March 19, 2024, held at the Las Piñas - Parañaque Wetland Park.



Figure 319. Estero Rangers Forum and Tour on LPPWP



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The DENR-NCR organized a special Pasig River tour for its women employees. This immersive experience aimed to honor the contributions of women in environmental conservation and celebrate their resilience and dedication.

On a bright morning, DENR-NCR women employees gathered at the Pasig River Escola Ferry Station, eager for the journey ahead. Boarding the ferry, they embarked on a symbolic voyage, navigating the historic waters of the Pasig River.

As the ferry glided along the riverbanks, participants engaged in discussions about the importance of environmental conservation. They shared stories of their work in protecting the river, restoring its ecosystems, and advocating for its sustainable development.

For the celebration of National Women's Month and World Water Day this March, the Metropolitan Environmental Office - East and the Metropolitan Environmental Office - North organized an event titled "empowered Rangers: The Power of Women Estero Rangers to the Success of Manila Bay Rehabilitation Program in celebration of National Women's Month and World Water Day" on March 19, 2024, held at the Las Piñas - Parañaque Wetland Park.



Figures 320-321. Pasig River and Esplanade Tour



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In relation to the celebration of NationalWomensMonth2024 and WorldWaterDay2024, the Conservation and Development Division (CDD), through its Production Forest Management Section (PFMS) and Coastal Foreshore and Resources Management Section (CRFMS), conducted a Mangrove Growing Activity on the 26th of March at Tanza Marine Tree Park (TMTP). The activity, led by Assistant Regional Director (ARD) for Technical Services Engr. Henry P. Pacis, together with CDD Chief For. Aida Esguerra, PFMS Chief For. Arturo G. Calderon, and CRFMS Chief Justin Albert J. De Ramos, actively involved approximately one hundred twenty-five (125) representatives from various divisions of DENR-NCR, Manila Bay Site Coordinating/Management Office, four (4) Metropolitan Environmental Offices, and Pasig River Coordinating and Management Office.

Representatives from DENR - MIMAROPA, led by ARD for Management Services Donna Mayor-Gordove, and representatives from Navotas City Environment and Natural Resources Office, led by CENR Officer Yzabela Bernardino A. Nazal-Habunai, also participated in this activity.



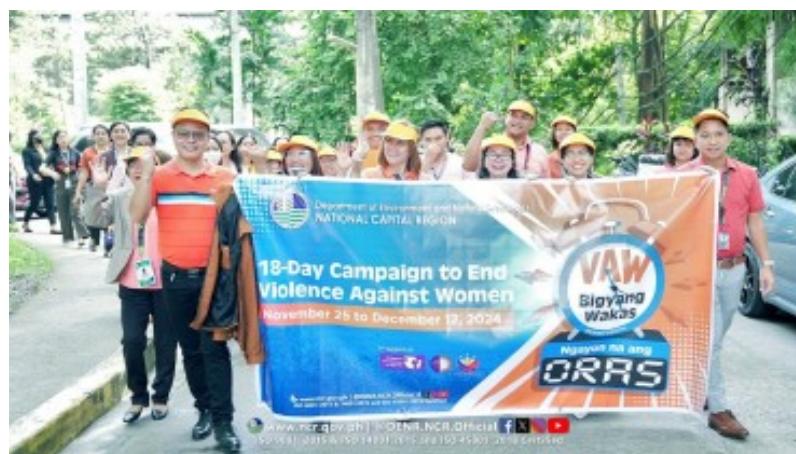
Figures 322-323. Mangrove Growing Activity



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The Department of Environment and Natural Resources – National Capital Region (DENR-NCR), in partnership with the Regional Gender and Development Focal Point System (RGADFPS), actively participated in the national observance of the 18-Day Campaign to End Violence Against Women (VAW). This campaign, held annually from November 25 to December 12, serves as a vital platform to raise awareness on the grave issue of violence against women and children, and to encourage efforts towards eliminating such violence in all forms.

For 2024, the DENR-NCR adopted the theme “VAW Bigyang Wakas, Ngayon Na ang Oras” (End VAW, The Time is Now), aligning with the Philippine government's continued commitment to promote gender equality and protect the rights of women. The theme reflects a strong call for action, urging everyone to take immediate steps to eradicate violence against women and to empower women to live free from fear and harm.



Figures 324-325. 18-Day Campaign to End Violence Against



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On November 29, 2024, the Department of Environment and Natural Resources – National Capital Region (DENR-NCR) conducted a significant learning event focused on the protection of women and children from violence, in line with the observance of the 18-Day Campaign to End Violence Against Women (VAW). The event centered on two critical pieces of legislation aimed at protecting women and children: Republic Act No. 9262, or the Anti-Violence Against Women and Children Act (VAWC), and Republic Act No. 11313, or the Safe Spaces Act.



Figures 326-327. Lecture on RA 9262, Anti-Violence on Women and Children, RA 11313, or Safe Spaces Act



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Youth Desk Office and Senior Citizens Affairs-Persons with Disabilities Desk Office

Executive Summary

This narrative report highlights the accomplishments of the Youth Desk Office (YDO) and the Senior Citizens Affairs-Persons with Disabilities Desk Office (SCA-PWDDO) under the Department of Environment and Natural Resources – National Capital Region (DENR-NCR) for the calendar year 2024. Both offices play a pivotal role in engaging key sectors in environmental initiatives, advocacy, and ensuring inclusivity in environmental policies and programs.

The DENR-NCR YDO played an essential role in engaging and empowering young individuals to contribute to environmental conservation and sustainable development in Metro Manila throughout the year. Through a series of impactful activities and initiatives, the YDO successfully strengthened environmental awareness, fostered collaboration with various stakeholders, and mobilized youth-led actions for environmental stewardship.

For CY 2024, the key accomplishments of the YDO include community engagement initiatives and experiential learning activities such as the conduct of an eco-camp in Las Piñas – Parañaque Wetland Park (Figure 1) and environmental tours in Manila Ocean Park (Figure 2), National Museum of Natural History and Apugan Cave (Figure 3). These activities were attended by students and teachers from different schools' organization namely One Pawikan Organization, Youth for Environment in Schools Organization (YES-O) officials, and representatives from the Schools Division Office of Pasay City, Las Piña



Figure 328. Experiential learning activity - EcoCamp: Youth for Wetland in Action attended by students and teachers from different schools in Las Piñas and Parañaque



Figure 329. Environmental tour in Manila Ocean Park with One Pawikan Organization and YES-O officials and representatives from the SDO of Pasay

and Parañaque, Lagro High School Quezon City and selected youth personnel from Environmental Management Bureau – National Capital Region and Pasig River Coordinating and Management Office. These aim to empower the youth to take an active role in building a sustainable future and educate them on the importance of preserving natural habitats, including marine ecosystems, caves, watersheds, and other vital ecosystems.



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Figure 330. Environmental tour in National Museum of Natural History attended by youth personnel from the Environmental Management Bureau – National Capital Region and Pasig River Coordinating and Management Office (left photo) and in Apugan Cave participated by some students of Lagro High School (right photo)

Another key accomplishment of the YDO includes youth empowerment programs such as the conduct of lectures with Youth for Environment in Schools Organizations (YES-O) of selected public schools in Quezon City—Old Balara Elementary School on 13 March, San Roque National High School on 15 August, Balara High School in QC on 17 September, and Bagong Silangan National High School on 21 November. Finally, the YDO’s attendance at the workshop/write shop on the DENR Youth for Resilience (Y4R) Module Enhancement which intends to produce a playbook that promotes children and youth participation in climate action and disaster resilience.

The DENR-NCR SCA-PWDDO, on the other hand, works to ensure that senior citizens and persons with disabilities are well-represented in environmental initiatives, promoting their active participation in environmental protection and preservation.



Figure 331. Beat the Heat: A Talk on Heat-Related Illnesses for DENR -NCR's Senior Citizen Employees



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For CY 2024, the key accomplishments of the SCA-PWDDO include the conduct of a total of three (3) target learning events. First, a health and wellness activity entitled “Beat the Heat: A Talk on Heat-Related Illnesses for DENR-NCR’s Senior Citizen Employees” was conducted at the DENR NCR for its senior citizen employees during the first semester of the year (Figure 4). For the second semester, the PWD-SCADO collaborated with the Youth Desk Office (YDO) and Regional Strategic Communication and Initiatives Group (RSCIG) to celebrate International Youth Day and National Disability Rights Week through a “Dalaw Turo”/Learning Activity for the PWD youth of Brgy. Ugong, Pasig City. Further, another health and wellness lecture entitled “Rainy Days, Healthy Ways: Building Healthy Habits for Senior Citizens” was conducted for the elderly residents of Brgy. Holy Spirit, Quezon City in celebration of the Elderly Filipino Week. (Figure 5)



Figure 332. Celebration of international Youth Day and National Disability Rights Week through a “Dalaw Turo”/Learning Activity for the PWD youth of Brgy. Ugong, Pasig City (right photo) and Health and Wellness lecture entitled “Rainy Days, Healthy Ways: Building Healthy Habits for Senior Citizens”

Challenges/Issues/Concerns

Despite the significant accomplishments, both offices encountered challenges in engaging marginalized communities and ensuring that all activities were fully accessible to senior citizens and persons with disabilities. A lack of sufficient funding for inclusive projects and programs for the youth, seniors, and PWDs also posed a challenge. In addition, both offices experienced challenges in terms of targeting the audience, particularly on the schedules. Moving forward, both offices addressed the mentioned problems by seeking support from the Regional Strategic Communication and Initiatives Group and the 4 Metropolitan Environmental Offices, aimed to have possible stakeholders to conduct the set initiatives. Overall, the YDO and SCA-PWDDO focused on strengthening accessibility to their respective sectors.



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Ways Forward

As DENR-NCR looks toward CY 2025, both the YDO and SCA-PWDOD are poised to build on the successes of the past year while addressing challenges and embracing new growth opportunities. The following strategies and initiatives will guide the work of both offices to ensure continued progress in environmental advocacy, inclusivity, and sustainable development.

1. Increased accessibility
2. Community support for Senior Citizens, Youth, and PWD
3. Strengthening partnerships with schools and universities
4. Enhanced digital presence and engagement

Improved collaboration of both offices for intergenerational environmental activities

By emphasizing accessibility, advocacy, and the empowerment of youth, senior citizens, and PWDs, both offices will play a key role in creating a more sustainable, equitable, and environmentally conscious future for Metro Manila. Through innovative PAPs and a commitment to inclusivity, the DENR-NCR can ensure that everyone, regardless of age or ability, has a voice and role in environmental stewardship.



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DENR NATIONAL CAPITAL REGION CONTINUED ISO CERTIFICATIONS



Figure 333. DENR-NCR ISO Recertification Audit

The DENR National Capital Region is successful for the recertification of ISO 45001:2018, Occupational Health and Safety Management System, as well as its accomplishment in passing the first-year surveillance audit for ISO 9001:2015 (Quality Management System) and ISO 14001:2015 (Environmental Management System), recommended by the NQA Global Certification Body.

The ISO 45001:2018 recertification emphasizes DENR-NCR's ongoing dedication to ensuring a safe and healthy working environment for its employees and stakeholders. This certification serves as a testament to the department's rigorous approach to managing occupational health and safety risks within its operations.

In addition, the successful completion of the first-year surveillance audits for ISO 9001:2015 and ISO 14001:2015 highlights the department's continuous efforts to improve the quality of its services and uphold its environmental responsibilities. ISO 9001:2015 demonstrates DENR-NCR's commitment to meeting customer expectations and regulatory requirements, while ISO 14001:2015 reflects its proactive approach to managing environmental impact and promoting sustainability.



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Ensuring Sustainability through Provision of Awards/Incentives/recognition to LGUs/stakeholders (Gawad Taga-Ilog)



Figure 334. 2024 Grand Champion Category A. Dario Creek. Brgy. Talipapa, Quezon City.

The Gawad Taga-Ilog (GTI): Search for the Most Improved Estero in Metro Manila is an initiative by the DENR-NCR aimed at recognizing the efforts of local government units (LGUs) and barangays in Metro Manila to keep their waterways clean and trash-free. It also seeks to encourage a positive change in the attitudes of Metro Manila residents regarding their role in maintaining clean waterways.

The program mechanics is that all 17 cities and municipality in Metro Manila are eligible to join the search program, but only one estero/waterway, with at least a length of 500 meters are allowed to be nominated and consider as their official entry to the contest.

All nominated Estero/waterways will be judged according to set of criteria form in accordance with the four clusters indicated in Operational Plan for the Manila Bay Coastal Strategy (OPMBCS). The four clusters are Solid Waste Management, Liquid Waste Management, Informal Settler Families and Illegal Structures Management and Habitat and Resources Management.

For the 2024 cycle, the competition featured two categories: Category A, which welcomed new entrants and non-winners from previous GTIs, and Category B, known as the #BattleForSustainability, where past winners competed again to showcase their ongoing efforts.

After a thorough evaluation, Dario Creek in Barangay Tali papa, Quezon City, emerged as the Grand Champion for Category A, while Estero Tripa De Gallina in Makati City secured the top spot in Category B. These recognitions underscore the commitment of local communities and stakeholders to improving water quality and restoring the ecological balance of Manila Bay tributaries.



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UPLB OFF-CAMPUS GRADUATE CLASSES IN THE DENR-NCR

The "University of the Philippines - Los Baños (UPLB) Off-Campus Graduate Classes in DENR National Capital Region" officially commenced on September 10th at the Conference Room of DENR-NCR Building 1, National Ecology Center in Quezon City. Thirteen (13) employees from the office have enrolled in the Master of Science (MSc) in Environmental Science for the first semester of the Academic Year 2023 -2024, offered by the School of Environmental Science and Management (SESAM) at UPLB.

This initiative aligns with a Memorandum of Agreement signed between DENR-NCR and UPLB-SESAM in May. The agreement facilitates the conduct of off-campus graduate classes at the office, aiming to broaden knowledge and enhance skills essential for planning and implementing the Department's environmental and natural resources programs. Additionally, it seeks to elevate the quality of public service, particularly in Metro Manila.

Development of New Systems

The screenshot shows the 'ALL TRANSACTIONS' page of the ODTs Version 5 system. The interface includes a search bar at the top, followed by buttons for 'Copy', 'ODT', 'Excel', 'PDF', and 'Print'. Below this is a table header with columns: ODTs No., Category, Transaction Details, Forwarded By, Forwarded To, Desired Action/Remarks, and Action. At the bottom of the table, there are search filters: 'Search ODTs No.', 'Search Category', 'Search Transaction Details', 'Search Forwarded By', 'Search Forwarded To', 'Search Desired Action/Remarks', and 'Search Action'. A note indicates 'No data available in table'. Navigation buttons 'Previous' and 'Next' are at the bottom right.

Figure 335. ODTs Version 5

The DENR-NCR Integrated Information System (DNIIS), serves as a centralized platform integrating multiple systems to improve efficiency and management. Its key features include unified management, interoperability, and streamlined updates across technical and administrative systems. The primary objective of DNIIS is to minimize paper usage and enhance document tracking and processing capabilities. The system introduces several new features, such as the integration of the New ODTs Version 5, a comprehensive document tracking system utilized by all divisions. Additionally, it incorporates a Procurement Tracking System (PTS) module, which streamlines the creation of procurement documents, including Purchase Requests, Abstracts of Quotations, and Notices.

Other developed systems are the Certificate of Transshipment System (CTS), designed to simplify the online issuance of transshipment certificates, and the Tree Cutting Permitting System, which facilitates the online issuance of permits for tree cutting activities. These advancements aim to modernize operations and promote sustainable practices within the DENR-NCR.



POLICY AND IMPLEMENTATION

ISSUES AND ACTION TAKEN

The key policy and implementation issues faced by the Department of Environment and Natural Resource (DENR) - National Capital Region (NCR) in 2024. The focus areas include the preservation of the Las Piñas-Parañaque Wetland Park, monitoring of reclamation projects and protected areas, addressing proposed infrastructure projects, and navigating complex legal and political issues.

The EMB-NCR has taken proactive steps to address these challenges, ranging from strengthening governance and enforcement to engaging with stakeholders and advocating for sustainable development. By implementing effective strategies and collaborating with relevant agencies, the EMB-NCR aims to protect the environment and promote sustainable development in the region.

ISSUES / CONCERNS	RECOMMENDATIONS / ACTION TAKEN
1. Preservation of the Las Piñas-Parañaque Wetland Park	<ul style="list-style-type: none">Regular meetings (TWC, PAMB) to guide decisions.Clear, transparent resolutions.Updated assessments (MEA, VA, PASA, SRPAO, SEAMS).DRMP for risk mitigation.Enhanced law enforcement.Biodiversity monitoring.Continued CEPA activities.Held 4 key meetings.Approved 3 resolutions.Updated assessments.Developed DRMP.Established law enforcement group.Implemented biodiversity monitoring.



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ISSUES / CONCERNS

2. Monitoring of Reclamation Projects

RECOMMENDATIONS / ACTION TAKEN

- Three reclamation projects (Pasay Harbor City, Pasay Reclamation, Manila Waterfront City) have been implemented.
- EMB-NCR personnel are part of the Manila Bay Reclamation Task Force.
- Continuous monitoring of ECC conditions, EMP, and EMP for all three projects. Monitoring of compliance with area clearance conditions.

3. Act Rationalizing and Strengthening the Management and Development of the Manila Bay Region, merging for the purpose the Manila Bay Coordinating Office (MBCO) and the Pasig River Coordinating and Management Office (PRCMO), thereby creating the Manila Bay Development Authority, prescribing its powers, functions, and duties

- **May 31, 2024:** PRCMO submitted its position on the MBDA to the LLO.
- **June 3, 2024:** PRCMO representative attended a consultative meeting led by the DENR-Central Office.
- **June 5, 2024:** DENR-NCR Legal Division and MBSCMO submitted comments and recommendations on the draft bill to the LLO.
- PRCMO supports the overall objective and essence of the MBDA bill, including the subsuming of PRCMO and MBCO.
- PRCMO highlights the ongoing issue of unresolved assets and liabilities transferred from the PRRC, which may pose challenges during the MBDA's establishment.
- DENR-NCR suggests involving DENR Regional Offices and other stakeholders to gather valuable input on the proposed bills.



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ISSUES / CONCERNS	RECOMMENDATIONS / ACTION TAKEN
4. Monitoring of Protected Areas	<p>LPPWP</p> <ul style="list-style-type: none">• Inspections conducted to identify violations.• NOVs issued to six locators operating without ECC and PAMB clearance.• Technical Conferences held with some locators.• Orders issued to all six locators.• MCRP Construction Corporation submitted a position paper.• Stricter enforcement of environmental regulations.• Regular monitoring to prevent future violations.• Capacity building for locators on environmental compliance. <p>BMB</p> <ul style="list-style-type: none">• Inspection conducted.• Notice of Meeting issued.• Meeting held to assist BMB in securing necessary clearances and permits.• Close monitoring of BMB's compliance progress.• Follow-up meetings to ensure compliance.• Timely enforcement of penalties.
5. DPWH Proposed Road Construction project in LPPWP & BFAR Proposed Construction of a 120sqm Solar-Powered Fisheries Resource Protection & Management Watchtower Mangrovetum Center	<ul style="list-style-type: none">• Obtain ECCs, conduct EIAs, and comply with all environmental conditions.• Maintain open communication and strengthen coordination among agencies.• Involve local communities in decision-making.• Take necessary legal action against violations.• LPPWP: Met with agencies, advised on requirements.• DPWH: Presented project, commenced construction without ECC.• BFAR: Submitted revised design.



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ISSUES / CONCERNS

6. Senate Bill No. 1533 Expanding the boundaries of the LPPWP and transfer of titles from PRA to DENR-NCR

- Extensive public consultations were conducted in key barangays.
- A Protected Area Suitability Assessment (PASA) was initiated.
- The bill has progressed through committee hearings and Senate deliberations.
- Key senators are discussing the extent of the expansion.
- Protect critical habitats and biodiversity.
- Build trust and address concerns.
- Mitigate conflicts with adjacent land uses.
- Allocate sufficient resources for management and restoration.
- Prevent illegal activities and environmental degradation.
- Minimize negative impacts on the wetland ecosystem.
- Inform decision-making with expert knowledge.
- Ensure timely implementation.
- Coordinate efforts and maximize impact.

7. Political Boundary of Makati and Taguig City

RECOMMENDATIONS / ACTION TAKEN

- Coordinated with LMB through a memo regarding the updated area of Taguig. Our office provided the tabulated Land Area Data of Taguig City and the sketch map of the indicative political boundaries of Makati and Taguig City.

8. Proclamation 1916, 1917 and 139 (who will apply)

- With DOJ opinion stating that the resolution of the issue lies either with Supreme Court that rendered decision or by the Office of the President that issued proclamations.

9. No available guidelines on the renewal of Area Clearance. Per Section 5 DAO 2018-14, the clearance is effective for five (5) years only.

- The Region is requesting guidance from the Central Office.
- The policy should align with any recommendation of the Cumulative Impact Assessment study.



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ISSUES / CONCERNS

10. Standardization of salary of (Estero Rangers and other Object 29) as well as possible review on the potential increase of salary of COS.

11. Youth Desk Office and Senior Affairs-Persons with Disabilities Desk Office

- o Limited engagement of marginalized communities, including youth, senior citizens, and persons with disabilities.
- o Insufficient funding for inclusive projects and programs.

Difficulty in effectively targeting the intended

12. RSCIG-ANNUAL REPORT-2024

o Resource and Funding Constraints:

- ➔ Limited financial resources allocated for environmental projects.
- ➔ High costs associated with organizing events, campaigns, and outreach initiatives.

➔ Coordination and Collaboration Challenges:

- ➔ Difficulty in ensuring seamless coordination among multiple agencies, LGUs, and stakeholders due to differing priorities, communication gaps, and jurisdictional issues.

Bureaucratic delays and inefficiencies in ob-

RECOMMENDATIONS / ACTION TAKEN

- Financial review and endorsement to DENR-CO to request for the adoption of standard salary for Estero Rangers under the Manila Bay Rehabilitation Program for the remaining quarter of 2024.
- Adoption of the standard salary fund to be sourced-out from the same PPA and within the budget allocation

- o Sought support from the Regional Strategic Communication and Initiatives Group (RSCIG) and the four Metropolitan Environmental Offices to identify potential stakeholders and expand outreach efforts.
- Focused on strengthening accessibility for all target sectors.

o Leveraging Partnerships and Sponsorships:

Collaborated with NGOs, corporate sponsors, and international bodies to secure additional funding and resources.

o Cost-Effective Strategies:

Maximized the use of free or low-cost communication tools (social media, webinars, digital newsletters).

o Volunteerism and Stakeholder Engagement:

Engaged volunteers from communities, academic institutions, and corporate partners to assist with project execution.

• Early Stakeholder Involvement:

Involved local governments and communities early in the planning stages to ensure their perspectives and resources are considered.



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ISSUES / CONCERNs

13. Legal Division

o Document Delivery Challenges:

→ Mailed legal documents were often returned undelivered or received by unauthorized recipients.

→ Unauthorized Document Release: Instances of unauthorized access and disclosure of internal documents.

→ High Demand and Workload: High demand for legal opinions and frequent requests to attend unrelated meetings impacted the Division's productivity.

→ Personnel Changes: Resignations and transfers within the Division impacted workflow.

Case Backlog: A backlog of land claims and conflict resolution cases was identified

RECOMMENDATIONS / ACTION TAKEN

- o **Improved Mail Delivery:** Implemented measures to ensure personal delivery of critical documents and reviewed the Memorandum of Agreement with the Philippine Post Office.
- o **Addressed Unauthorized Document Release:** Issued a Memorandum to address the unauthorized release of restricted documents and unwarranted disclosure of information.
- o **Streamlined Workflow:** Developed a draft Memorandum outlining guidelines for requesting legal opinions and prioritized urgent matters.
- o **Enhanced Staff Capacity:** Provided cross-training to remaining personnel to enhance their skills and ensure continuity of operations.
- **Resolved Case Backlog:** Prioritized the resolution of land claims and conflict resolution cases through a Special Order approved by the Regional Executive Director.



WAY FORWARD

As we close another year, we look back with a deep sense of gratitude for the strides we have made together in our collective mission to safeguard our environment and natural resources. The past year has been a testament to the unwavering commitment of the DENR-NCR team, our partners, and the communities we serve. Together, we have navigated challenges, embraced opportunities, and reinforced our role in building a sustainable future for the National Capital Region.

Our achievements and accomplishments for 2024 were made possible by the dedication of all those who joined hands with us in shaping policies, implementing programs, and making significant contributions toward preserving our natural heritage. Despite the challenges that persist, it is through resilience and collaboration that we can make meaningful progress.

Looking ahead, we are energized by the opportunities that await us in the coming year. The year to come promises to be one of action and growth as we continue to address the environment issues that affect NCR and the entire country. Our focus will be on strengthening partnerships, advancing green initiatives, and promoting sustainable development. To achieve this, the Region chart a clear course of action this year:

1. Enhanced capacity building and staff training, improved stakeholder collaboration and partnerships, increased and improved digital transformation and innovation, development of clearer and more focused communication strategies, improved monitoring, evaluation, and feedback mechanisms, crisis communication preparedness, a focus on sustainable and long-term goals to build evidence-based environmental impacts of the PAPs, and building a strong public image and trust are key priorities.

2. To enhance enforcement efforts, it is essential to allocate additional resources and adopt stricter measures to combat illegal activities effectively. Regularly reviewing and updating regulatory programs, coupled with conducting routine compliance audits, will help ensure adherence to established standards. Additionally, strengthening coordination and collaboration with other law enforcement agencies and management authorities can optimize activities related to wildlife and forestry management.



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3. For strategic advancements, the DENR-NCR is also focused on acquiring a multibeam echosounder, a highly specialized piece of equipment that is crucial for mapping underwater terrain with great precision. This advanced tool will play a vital role in navigation, dredging activities, and providing support for land-based projects in various coastal and water areas. The multibeam echosounder offers the capability to collect valuable data on the underwater topography of various bodies of water, including rivers, lakes, and estuaries. This data will not only support effective navigation and dredging processes but also contribute to accurate flood assessments and guide project development initiatives in the region. By incorporating such technology into its efforts, the DENR NCR is reinforcing its commitment to advancing environmental management through innovation and data-driven decision-making.
4. Focusing on water quality involves analyzing data to pinpoint areas requiring improvement and developing targeted strategies based on the insights gained from the analysis.
5. Environmental monitoring involves conducting regular surveys to assess air quality, expanding Materials Recovery Facilities (MRFs), and ensuring their proper implementation through consistent oversight. Additionally, it emphasizes upgrading technological infrastructure to enhance data management and streamline integration processes.
6. Optimizing office operations involves reviewing and updating land application procedures to expedite approval processes. It also includes providing staff with targeted training to enhance overall efficiency and productivity.
7. Enhancing natural resource protection requires a multifaceted approach. Allocating more resources and implementing stricter measures can strengthen enforcement against illegal activities, ensuring greater accountability. Regulatory programs should be regularly reviewed and updated, accompanied by consistent audits to maintain compliance and adapt to evolving environmental challenges. Additionally, developing comprehensive plans that prioritize the conservation and sustainable development of natural resources is crucial. These plans should incorporate community engagement initiatives to foster collaboration and shared responsibility, ensuring long-term success in protecting our environment.

As we enter the new year, I call upon each of you to remain steadfast in our shared commitment to environmental stewardship. Let us continue to work together, hand in hand, to ensure that our efforts today will create a greener, cleaner, and more sustainable tomorrow for future generations. May the year ahead bring us all success, peace, and renewed hope for a healthier environment in Metro Manila.



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ANNEXES



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MANILA BAY



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Annex I

Table 21. Data of waste collection along waterways.

ACTIVITY	TOTAL NO. OF CLEANUPS CONDUCTED	TOTAL NO. OF VOLUNTEERS	TOTAL WASTE COLLECTED (sacks)
Regular Cleanup	314	21,972	107,158
NMEO	69	3,587	18,240
EMEO	57	2,035	22,506
WMEO	110	10,862	40,536
SMEO	78	5,488	25,876
Water hyacinth cleanup	677	6,942	106,889
NMEO	-	-	-
EMEO	-	-	-
WMEO	13	368	3,905
SMEO	397	3275	25,160
PRCMO	267	2849	77,842
Estero Rangers cleanup	Daily cleanup	1,425	1,022,037
NMEO	Daily cleanup	299	219,189
EMEO	Daily cleanup	260	129,500
WMEO	Daily cleanup	491	318,153
SMEO	Daily cleanup	375	380,679
TOTAL	991 ++	30,150	1,236,084

Table 22 Deployment of Personnel.

MEO	TOTAL ESTERO RANGERS DEPLOYED	TOTAL RPOs DEPLOYED
NORTH	297	39
EAST	262	35
WEST	490	40
SOUTH	373	37
TOTAL	1,422	151



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Table 24. Summary of Engineering Interventions provided by DENR NCR to Metro Manila LGUs and barangay in support of Manila Bay Rehabilitation Program.

INTERVENTION	QUANTITY						TOTAL
	2019	2020	2021	2022	2023	2024	
Trash Bin- 2020 (3 per set)- 2022 & 2023 (4 per set)- 2024 (4 per set)	-	274 sets/ 822 units	-	100 sets/ 400 units	100 sets / 400 units	100 sets / 400 units	574 sets / 2022 Units
Dumpster Bin	-	-	-	-	-	-	27 Sets / 54 units
Trash Raft							
- Prototype 1 (3.00mW x 3.00mL)	2	-	-	-	-	-	2
- Prototype 2 (1.90mW x 3.00mL)	10	-	-	-	-	-	10
- Prototype 3 (1.80mW x 2.15mL)	-	2	-	-	-	-	2
- Prototype 4 (1.80mW x 2.40mL)	-	-	10	-	-	-	10
Trash Net	-	-	34	17	-	-	51
Trash Collector Trike	10	36	36	50	-	-	132
Trash Trap	13	1	10	12	13	-	49
Trash Collector Cart	-	-	48	-	50	-	98
Pontoon Barge	-	-	-	-	12	20	32
HDPE Paddle Boat				20	30	30	80
Deployable CCTV - Waterway Monitoring	-	-	-	4	4	2	10
TOTAL	35	861	138	503	509	506	2,552



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Table 26. QRT HIGHLIGHTS CY 2024

RIVER SYSTEM	STATION	DATE COORDINATED	OBSERVATION	ACTION TAKEN	PHOTO DOCUMENTATION
JANUARY 2024					
Mangangate River – Muntinlupa City	Upper Palico Bridge (West), Barangay Cupang	January 9, 2024	Moderate floating solid waste and black moss were observed in the area.	QRT Coordinated with MEO South for clean-up. Clean-up initiated by MEO South on January 9, 2024, and collected 4 sacks of mixed solid waste with 4 participants.	
Alabang River – Muntinlupa City	Pasong Diablo Bridge, Barangay Cupang & Barangay Alabang	January 9, 2024	Plywood debris beside the river	QRT Coordinated with MEO South for clean-up. Clean-up initiated by MEO South on January 9, 2024. The Environmental Sanitation Center hauled the plywood debris observed in the waterway.	
Paranaque River/ Tripa De Gallina – Pasay City	Buendia Bridge, Brgy 46 & 51	January 11, 2024	High volume of solid waste was observed in the area.	QRT Coordinated with MEO West for clean-up along the waterway. A cleanup was scheduled by MEO West. Clean-up initiated together with Estero Rangers of Brgy palanan/ brgy 43/brgy San isidro/brgy 51 /brgy 67 Makati Pasay city and collected 30 sacks of mixed solid waste.	
Alabang River – Muntinlupa City	Pasong Diablo Bridge, Barangay Cupang & Barangay Alabang	January 18, 2024	Moderate floating solid waste and no water hyacinths were observed in the area.	QRT Coordinated to MEO South for clean-up. MEO South Estero rangers conducted a clean-up activity on January 19, 2024, and collected 23 sacks of mixed solid waste with a total of 5 participants.	



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Sucat River – Muntinlupa City	Lower Buli Bridge, Barangay Buli & Barangay Sucat	January 18, 2024	Moderate presence of solid waste and no water hyacinths were observed in the area. Moderate volume of silt due to ongoing construction.	QRT Coordinated with MEO South for clean-up. MEO South Estero rangers conducted a clean-up activity on January 19, 2024, and collected 20 sacks of mixed solid waste with a total of 10 participants.	
Tullahan River System – Quezon City	Riverside Bridge, Brgy. Commonwealth	January 23, 2024	Few solid wastes were observed in the waterway. However, large volume of solid waste was observed along Waterway, and there was evidence of people in the area dumping in the area.	QRT Endorsed to MEO – East and they acknowledged the concern on January 23, 2024. MEO East coordinated with Barangay Commonwealth on January 23, 2024, regarding the dumping of residential waste in Barangay Commonwealth, as reported by Kagawad John Paul Sevilla. This has become a junk shop, but it is not permitted.	
				Therefore, the owner is urged to remove the dumped items as soon as possible.	
Mangate River – Muntinlupa City	Upper Palico Bridge (West), Barangay Cupang	January 23, 2024	Moderate floating solid waste and black moss were observed in the area.	QRT Coordinated with MEO South for Clean-up on January 23, 2024. MEO South Estero rangers initiated a clean-up activity and collected 2 sacks of mixed solid waste with a total of 5 Estero rangers participants on January 23, 2024.	
Pasong Diablo River – Muntinlupa City	Cupang Bridge, Barangay Cupang & Barangay Alabang	January 23, 2024	Low volume of solid wastes accumulated in the trash trap. High volume of water hyacinth.	MEO South conducting daily clean-up. QRT Coordinated with MEO South for Clean-up on January 23, 2024. MEO South Estero rangers initiated a clean-up activity and collected 69 sacks of mixed solid waste with a total of 5 Estero rangers	



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				participants on January 22, 2024.	
Parañaque River/ Tripa De Gallina – Pasay City	Buendia Bridge, Brgy 46 & 51	January 24, 2024	High volume of solid waste was observed in the area.	QRT Reported to MEO West for appropriate action on January 23, 2024. A cleanup was scheduled by MEO West. MEO West conducted a clean-up activity and collected 34 sacks of mixed solid waste on January 25, 2024 with a total of 5 Estero rangers participants.	
FEBRUARY 2024					
Parañaque River/ Tripa De Gallina – Pasay City	Buendia Bridge, Brgy 46 & 51	February 8, 2024	High volume of solid waste was observed in the area.	QRT observed a high volume of mixed solid waste along the waterway on February 7, 2024. Coordinated with MEO West for appropriate action. MEO West acknowledged and took action. MEO West Estero	
				rangers conducted a clean-up activity along the waterway and collected 26 sacks of mixed solid waste. MEO West conducts regular clean-up activity.	
Parañaque River/ Tripa De Gallina – Pasay City	Buendia Bridge, Brgy 46 & 51	February 13, 2024	High volume of solid waste was observed in the area.	QRT observed high volume of mixed solid waste along the waterway on February 13, 2024. Coordinated with MEO West for appropriate action. MEO West acknowledged and took action. MEO West Estero rangers conducted a clean-up activity along the waterway and collected 26 sacks of mixed solid waste. MEO West conducts regular clean-up activity.	



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San Juan River System – Quezon City	Tandang Sora Ave. Brgy. Culiat, Quezon City	February 15, 2024	Moderate volume of floating solid waste was observed in the area.	QRT observed a high volume of mixed solid waste along the waterway on February 15, 2024. Coordinated with MEO East for appropriate action. MEO East acknowledged and took action. MEO East Estero rangers conducted a clean-up activity along the waterway and collected 180 sacks of mixed solid waste ON February 16, 2024. Regular clean-up will be conducted by the Estero Rangers to maintain the cleanliness along the waterway.	
Parañaque River/ Tripa De Gallina – Pasay City	Buendia Bridge, Brgy 46 & 51	February 20, 2024	High volume of solid waste was observed in the area.	QRT observed high volume of mixed solid waste along the waterway on February 20, 2024. Coordinated with MEO West for appropriate action. MEO West acknowledged and took action. MEO West Estero rangers conducted a clean-up activity along the waterway and collected 85 sacks of mixed solid waste. MEO West and Barangay Palanan, conducted a clearing operation in the area. Estero Rangers conducts regular clean-up activity to maintain the cleanliness of the waterway.	



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Tullahan River System – Quezon City	Riverside Bridge, Brgy. Commonwealth	February 27, 2024	High volume of solid waste was observed in the area.	QRT Endorsed on February 27, 2024 to MEO – East and they acknowledged the concern. Estero Rangers with Barangay Commonwealth, Batasan Hills, Holy Spirit, and Fairview conducted a joint clean-up activity on March 5, 2024, to maintain the cleanliness of the waterway. Collected 300 sacks of Mixed solid waste were collected.	
MARCH 2024					
Munting Illog (C5)– Las Piñas	Barangay Pulang Lupa Uno	March 5, 2024	Observed Informal Settler Families activities and constructed Illegal Structures. Observed ongoing fire alert nearby.	QRT endorsed to MEO – South regarding the status of the waterway and alerted them regarding the ongoing fire nearby. In response, MEO – South acknowledged the	
				concern and coordinated immediately with the barangay. However, the attention of the barangay is focused to the ongoing fire nearby. RPO1 of Las Piñas team coordinated the issue regarding the informal settlers that were observed by the QRT last March 5, 2024. Ms. Nanagas stated that barangay Pulang Lupa Uno already have plans to relocate the ISF on the subject area. They will give the team an update on their relocation process once settled. The Las Piñas team will continue to coordinate with barangay Pulang Lupa Uno to keep the	



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				MEO South office and Manila Bay updated.	
Parañaque River/ Tripa De Gallina – Pasay City	2013 Airport Road, Barangay 191	March 5, 2024	High volume of solid waste and floating black moss and dry leaves.	<p>QRT endorsed to MEO – South regarding the status of the waterway. In response, MEO – South acknowledged the concern and will coordinate with the barangay for cleanup.</p> <p>Estero Rangers conducted a clean-up activity to maintain the cleanliness of the waterway.</p> <p>50 mixed solid waste of sacks collected.</p>	
Libertad Channel – Pasay City	Diosdado Macapagal Roadway Bridge, Barangay 76	March 20, 2024	Observed Possible Informal Settler Families activities and constructed Illegal Structures.	<p>QRT endorsed to MEO – West regarding the status of the waterway.</p> <p>In response, MEO –West coordinated with Brgy 76 and informed the people nearby that the area is dangerous and is off-limit.</p>	
Parañaque River/ Tripa De Gallina – Pasay City	Buendia Bridge, Brgy 46 & 51	March 13, 2024	High volume of solid waste was observed in the area.	<p>Endorse to MEO – West and they acknowledged the concern.</p> <p>Estero Rangers with CENRO Pasay conducted a joint clean-up activity on March 14, 2024, to Maintain the cleanliness of the waterway.</p> <p>Collected 25 sacks of Mixed solid waste were collected.</p>	



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Munting Ilog (C5)– Las Piñas	Barangay Pulang Lupa Uno	March 20, 2024	<p>Observed Informal Settler Families activities and constructed Illegal Structures.</p> <p>Observed ongoing open burning.</p>	<p>QRT endorsed to MEO – South regarding the status of the waterway.</p> <p>In response, MEO – South coordinated immediately with the barangay. MEO – South and the barangay conducted an inspection and evidence of burning were observed.</p> <p>Barangays took action and issued a verbal warning to the ISF. And they were also informed the consequences of their non-compliance which includes clearing operations on Friday, March 22, 2024.</p> <p>On March 22, 2024 the Barangay Pulang Lupa Uno with DENR (MEO-SOUTH), DSWD, PNP</p>	
				<p>Las Piñas, Barangay Officials of Pulang Lupa uno, Ex-Officials conducted a Demolition of Illegal Settler Families (ISF) and Structures.</p> <p>During the course of the demolition, the team discovered drugs and paraphernalia in the vicinity. Minors who were found in possession of these substances were promptly taken into custody by the DSWD for further assistance and intervention.</p> <p>Moving forward, the demolition activity resulted in the displacement of 21 families who were subsequently brought to the barangay for investigation. As part of the process, the individuals were</p>	



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				<p>subjected to a urine test to determine if they were using drugs. Furthermore, the barangay will conduct a follow-up clearing operation tomorrow to ensure that the area is cleared. The RPOs will also continue to monitor the Situation and provide support such as designating the Estero rangers for joint clean-up on the area. The RPOs will also schedule a clean-up together with its partner agencies to partake in a much-needed clean-up effort.</p>	
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APRIL 2024

San Juan River System – Quezon City	Tandang Sora Bridge, Tandang Sora Ave, Quezon City	April 11, 2024	High volume of solid waste was observed in the area.	Endorse to MEO – East and they acknowledged the concern. Estero Rangers conducted a clean-up activity on April 12, 2024	
Tullahan River System – Quezon City	Riverside Bridge, Brgy. Commonwealth	April 23, 2024	Large volume solid wastes were observed within the waterway.	Endorse to MEO – East and they acknowledged the concern. Estero Rangers with Barangay Commonwealth, Batasan Hills, Holy Spirit, and Fairview conducted a joint clean-up activity on April 24, 2024, to maintain the cleanliness of the waterway. Collected 350 sacks of Mixed solid waste were collected.	



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MAY 2024

Marikina River System – Marikina City	Marikina River Banks, Marikina Industrial Valley, Marikina City	May 2, 2024	Large volume of Water Hyacinth was observed within the waterway.	Endorse to MEO – East and they acknowledged the concern. Estero Rangers conducted a joint clean-up drive activity with Barangay IVc on May 3, 2024, and collected 60 sacks of mixed solid waste.	
Parañaque River/ Tripa De Gallina – Pasay City	Epifanio Delos Santos Avenue, Malibay, Barangay 143, 144	May 30, 2024	Moderate volume solid wastes were observed within the waterway.	QRT endorsed to MEO – West regarding the status of the waterway. MEO-WEST Responded and immediate clean-up has been conducted. Estero rangers conducted a clean-up activity and	

				collected total of 3 sacks mixed solid waste along the waterway.	
Parañaque River/Tripa De Gallina- Pasay City	San Dionisio Bridge, Barangay San Dionisio	May 30, 2024	Moderate volume solid wastes were observed within the waterway.	QRT endorsed to MEO – South regarding the status of the waterway. Estero Rangers conducted a clean-up activity on May 31, 2024 with a total of (17 ER's) and collected a total of 225 sacks of water hyacinth and mixed waste collected along the waterway.	

JUNE 2024

Tullahan River Paltok creek	Brgy. Commonwealth, Quezon City	June 4, 2024	High volume of solid wastes accumulated in the trash trap.	MEO East conducted clean-up activity and collected a total of 160 mixed solid waste of sacks to maintain the cleanliness of the waterway.	
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Parañaque River/ Tripa De Gallina – Pasay City	Buendia Bridge, Barangay 46 & 51	June 5, 2024	High volume of solid wastes accumulated in the trash trap.	MEO West conducted coordination with MMDA and LGU/barangay representatives to address this recurring issue together. Report will be submitted afterwards.	
Munting Ilog 2– Las Piñas	Florlina Dela Cruz Road, Brgy. Pamplona Dos	June 5, 2024	Moderate volume of solid wastes accumulated in the trash trap.	MEO South Estero Rangers conducted joint clean-up activity with Sagip Ilog (Villar) and collected a total of 12 sacks of mixed solid waste.	
Alabang River – Muntinlupa City	Pasong Diablo Bridge, Barangay Cupang & Barangay Alabang	June 14, 2024	Low volume of floating solid waste and no water hyacinths were observed in the area.	MEO South Estero Rangers conducts daily clean-up activity to maintain the cleanliness of the waterway.	
Pasig River System – Makati City	Pasig River Guadalupe Ferry Station	June 19, 2024	Moderate to high volume of water hyacinth along the stretch of Pasig River	MEO West coordinated with PRCMO to conduct clean-up activity using the trash boat to maintain the cleanliness of the waterway.	
Marikina River System – Marikina City	Lambingan Bridge- Brgy. Salapan, Quezon City	June 27, 2024	High volume solid wastes were observed within the waterway.	A regular cleanup was being conducted by MEO West and PRCMO to maintain the cleanliness of the waterway.	

JULY 2024



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Pasig River System – Makati City	Guadalupe Ferry Station, Barangay Guadalupe Nuevo	July 2, 2024	Moderate to high volume of water hyacinth along the stretch of Pasig River	QRT coordinated with MEO South regarding the status of the waterway. MEO South coordinated with PRCMO to conduct clean-up activity using the trash boat to maintain the cleanliness of the waterway.	
San Juan River System – Mandaluyong City	Kaliraya Rd., Barangay Tatalon, Quezon City	July 9, 2024	Moderate to high volume of water hyacinth along the stretch of Pasig River	QRT observed estero rangers conducting daily clean-up activity to maintain the cleanliness of the waterway.	
San Juan River System – Quezon City	Kaliraya Rd., Barangay Tatalon, Quezon City	July 17, 2024	Observed discoloration of water along the waterway.	QRT observed discoloration of water and coordinated with MEO East regarding the status of waterway. MEO East coordinated with Barangay Roxas regarding the status of waterway. During the investigation of Special	
				Investigator and RPO1, no discoloration of waterway was observed and according to Brgy Secretary of Roxas there is Paint factory and textile garments upstream. MEO East will coordinate on July 18, 2024 Brgy. Kristong Hari regarding the concern.	
Pasig River System – City of Manila	Padre Jacinto Zamora Memorial Bridge, Barangay 621	July 17, 2024	Observed tree branches on the side of the waterway	QRT with MEO – West regarding the tree branches. MEO – West will coordinate with the barangay 621 concerned to not dump the branches on the waterway after trimming. On July 18, 2024 estero rangers conducted removal of tree branches. DPS will also haul the branches.	



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San Juan River System – Quezon City	Lambingan Bridge- Brgy. Salapan, Quezon City	July 17, 2024	High volume of solid waste observed in the area. Area installed with Trash Trap of EMB-NCR. Stationed for clean-up of EMB, PRCMO, and CENRO City of San Juan.	QRT Coordinated with MEO – West regarding the volume of the solid waste. MEO – West conducted continuous clean-up of the waterway and collected 200 sacks of mixed solid waste to maintain the cleanliness of the waterway.	
Pasig River System – City of Manila	Quezon Bridge, Barangay 654 & 383	July 23, 2024	High volume of water hyacinths observed in the area. PRCMO conducting daily maintenance of the waterway stretch.	QRT Reported to PRCMO the observed high volume of water hyacinth. Subject to daily cleanup of water hyacinth being conducted by PRCMO.	
Pasig River System – Makati City	Kaunlaran Bridge, Barangay Buting	July 23, 2024	High tide and strong water current due to inclement weather condition.	QRT observed high tide and strong water current due to inclement weather condition.	
Marikina River System – Marikina City	Marikina Riverbanks, Barangay Barangka	July 23, 2024	High tide and strong water current due to inclement weather condition. Brown color of water due to resuspension of sediments in the waterway mainly due to the ongoing Dredging of Upper Marikina River within the waterway by the DPWH.	QRT observed high tide and strong water current due to inclement weather condition.	

AUGUST 2024



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San Juan River System – Mandaluyong City	Bacood – Mandaluyong Bridge, Brgy. 620 & 893, Manila	August 6, 2024	Observed high volume of solid waste along the waterway.	QRT observed a high volume of floating solid waste along the waterway. PRCMO conducts daily clean-up of the waterway.	
Marikina River System – Marikina City	A. Bonifaction Bridge, Barangay Sto. Niño	August 6, 2024	No presence of floating solid waste and water hyacinths was observed in the area.	QRT observed No presence of floating solid waste and water hyacinths observed in the area. Brown color of water due to resuspension of sediments in the waterway mainly due to the ongoing Dredging of Upper Marikina River within the waterway by the DPWH.	
Malabon-Navotas River System – Malabon and Navotas City	M. Naval Street, Brgy. Bangkulasi	August 13, 2024	Low volume of solid wastes was observed within the waterway. Several docked boats observed.	MEO North Estero Rangers conducts daily clean-up activity to maintain the cleanliness of the waterway.	
Parañaque River/ Tripa De Gallina – Pasay City	Malibay, Barangay 143, 144	August 14, 2024	Site for daily monitoring and maintenance of Estero Ranger from Barangay 143. QRT observed Trash boat.	QRT observed No presence of floating solid waste and water hyacinths observed in the area. MEO West Estero Rangers conducts daily clean-up activity to maintain the cleanliness of the waterway.	
Marikina River System – Pasig City	Javier Bridge, Barangay Pinagbuhatan	August 21, 2024	High volume of water hyacinth was observed in the area that impedes the flow of water. MMDA installed trash net for water hyacinth. Being lifted during increment weather condition.	QRT observed a high volume of water hyacinth in the waterway. MMDA installed trash net for water hyacinth. Being lifted during increment weather condition.	



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Marikina River System – Marikina City	Marikina Riverbanks, Barangay Barangka	August 21, 2024	No presence of floating solid waste and water hyacinths was observed in the area.	QRT observed Marikina River warriors conducting clean-up activity to maintain the cleanliness of the waterway.	
Labasan Creek – Taguig City	205 Circumferential Road 6 Bridge, Barangay Palingon and Barangay Napindan	August 27, 2024	Observed soap-like foam flowing in the waterway.	QRT coordinated with MEO South regarding the soap-like foam floating in the waterway. MEO South acknowledged. MEO South coordinated with Engineer Calipay regarding the QRT sent last August 27, 2024. Engr. Calipay stated that they do not have a concrete answer regarding the soap-like foam flowing in the river. His team suspects that the foam is composed of pollutants and dissolved organic matter (water hyacinth) since it only happens in pumping	
				stations in Taguig. In other pumping stations, like in Manila, they don't encounter the said foam since most of their stations have solid waste/trash, unlike in Taguig, where water hyacinth is abundant. Although it may look like ordinary foam, MMDA advised the public against touching it as it might cause skin irritation, and rashes and some grass died when the foam dissolved. Engr. Calipay also informed us that LLDA already conducted a water sampling on the pumping stations, but they don't have any updates on the results.	

SEPTEMBER 2024



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San Juan River System – Quezon City	Sevilla Bridge, Barangay Daang Bakal, Manila	September 4, 2024	High volume of solid waste observed in the area.	Area installed with PRCMO Floating Trash Trap to control the solid waste. The waterway being maintained by PRCMO.	
Parañaque River/ Tripa De Gallina – Pasay City	Epifanio Delos Santos Avenue, Malibay, Barangay 143, 144	September 12, 2024	Low volume of solid waste observed in the area.	Installed CCTV in the area for continuous monitoring of the waterway. Continuous clean-up of Esterio Rangers and monitoring of MEO-South to maintain the cleanliness of the waterway.	
Las Piñas River – Las Piñas	San Dionisio Bridge, Barangay San Dionisio	September 18, 2024	Low volume of solid waste observed in the area.	QRT Endorsed to MEO – South regarding the status of the waterway. In Response, MEO – South coordinated with barangays. LGUs and other related agencies will conduct cleanup to maintain the cleanliness of the waterway.	
San Juan River System – Quezon City	Sevilla Bridge, Barangay Daang Bakal, Manila	September 24, 2024	High volume of solid waste observed in the area.	PRCMO is conducting daily clean-up of the waterway.	
San Juan River System – Quezon City	Quezon Ave. Bridge, Barangay Tatalon, Quezon City	September 24, 2024	Low volume of floating solid waste observed along the waterway.	Station for regular cleanup by PRCMO.	
OCTOBER 2024					
Malabon-Navotas River System – Malabon and Navotas City	M. Naval Street, Brgy. Bangkulasi	October 1, 2024	Few solid wastes were observed. Docked boats observed.	Regular Clean-up activity was conducted by MEO North.	



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Marikina River System – Pasig City	Javier Bridge, Barangay Pinagbuhatan	October 1, 2024	High volume of water hyacinth observed in the area that impedes the flow of water.	MMDA installed a trash net for water hyacinth. Being lifted during inclement weather conditions.	
San Juan River System – Quezon City	Quezon Ave. Bridge, Barangay Tatalon, Quezon City	October 8, 2024	Moderate volume of floating solid waste observed along the waterway. Area installed with Trash Trap of EMB-NCR.	Ongoing Clean-up was conducted during the monitoring of waterways. Regular Clean-up was conducted along the waterways.	
Parañaque River/ Tripa De Gallina – Pasay City	Armaiz, Cementina Dolores Bridge, Brgy 67 & 128	October 17, 2024	High volume of floating solid waste observed along the waterway. Area installed with Trash Trap of EMB-NCR.	QRT observed a high volume of solid waste along the waterway and coordinated with MEO West for appropriate action. MEO West RPO1s conducted a visit and coordinated with barangay officials and the waterway. Estero	
				Rangers conducted a clean-up activity.	
San Juan River System – Quezon City	Lambingan bridge, Quezon city	October 22, 2024	High volume of floating solid waste observed along the waterway. Area installed with Trash Trap of EMB-NCR.	QRT observed a high volume of solid waste along the waterway and coordinated with MEO West for appropriate action. MEO West RPO's conducted a monitoring and coordinated with the barangay officials and scheduled an extensive clean up drive together with the PRCMO on October 22, 2024.	
Marikina River System - Marikina City	Marikina Riverbanks, Barangay Barangka	October 29, 2024	Low volume of floating solid waste observed in the area. No presence of water hyacinths observed in the area.	For continuous monitoring and documentation.	



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			Brown color of water due to resuspension of sediments in the waterway mainly due to the ongoing Dredging of Upper Marikina River within the waterway by the DPWH.		
SAN JUAN RIVER SYSTEM – MANDALUYONG CITY	Bacood – Mandaluyong Bridge, Brgy. 620 & 893, Manila	October 29, 2024	Moderate volume of floating solid waste was observed in the area Black color of water due to sewage pollution mostly occurred in urban areas. Waterway being maintained by PRCMO.	PRCMO is conducting daily clean-up of the waterway.	
SAN JUAN RIVER SYSTEM – QUEZON CITY	Lambingan Bridge- Brgy. Salapan, Quezon City	October 29, 2024	High volume of solid waste observed in the area.	Stationed for clean-up of EMB, PRCMO, and CENRO City of San Juan. Continuous clean-up of the area is being conducted by MEO – West and the Barangay.	
NOVEMBER 2024					
PASIG RIVER SYSTEM – CITY OF MANILA	Quezon Bridge, Barangay 654 & 383	November 8, 2024	High volume of water hyacinths and no presence of solid waste observed in the area. PRCMO conducting daily maintenance of the waterway stretch. Fast flow of water due to heavy rainfall.	For continuous monitoring and documentation.	



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SAN JUAN RIVER SYSTEM – MANDALUYONG CITY	Ayala Bridge, Barangay 663-A	November 8, 2024	High volume of water hyacinths and solid waste observed in the area. Brown color of water due to resuspension of sediments in the waterway. Fast flow of water due to heavy rainfall.	PRCMO is conducting daily clean-up of the waterway.	
SAN JUAN RIVER SYSTEM – QUEZON CITY	Sevilla Bridge, Barangay Daang Bakal, Manila	November 8, 2024	High volume of solid waste observed in the area. Area installed with PRCMO Floating Trash Trap to control the solid waste. Waterway being maintained by PRCMO.	Documentation of the cleanup being conducted by River Warriors of PRCMO.	
			Unimpeded flow of water.		
MARIKINA RIVER SYSTEM – PASIG CITY	Javier Bridge, Barangay Pinagbuhatan	November 8, 2024	High volume of water hyacinth observed in the area. Unimpeded flow of water	Reported to MEO East, MEO East to conduct coordination with MMDA and CENRO Pasig regarding the issue.	
Marikina River System – Pasig City	Javier Bridge, Barangay Pinagbuhatan	November 14, 2024	High volume of water hyacinth observed in the area. Unimpeded flow of water.	Reported to MEO East, MEO East to conduct coordination with MMDA and CENRO Pasig regarding the issue.	
Pasong Diablo River – Muntinlupa City	Cupang Bridge, Barangay Cupang & Barangay Alabang	November 13, 2024	Low volume of solid wastes accumulated in the trash trap. High volume of water hyacinth.	MEO South conducts daily clean-up.	



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SAN JUAN RIVER SYSTEM	Sevilla Bridge, Barangay Daang Bakal, Manila	November 19, 2024	High volume of solid waste was observed in the area. Area installed with PRCMO Floating Trash Trap to control the solid waste. Waterway being maintained by PRCMO. Ongoing cleanup being conducted by PRCMO Unimpeded flow of water.	Ongoing cleanup being conducted by PRCMO. Station of cleanup by PRCMO	
SAN JUAN RIVER SYSTEM	Lambingan Bridge- Brgy. Salapan, Quezon City	November 19, 2024	Heavy volume of solid waste was observed in the area. Area installed with Trash Trap of EMB-NCR. Black color of the water. Stationed for clean-up of	A regular cleanup was being conducted by MEO West and PRCMO	
			EMB, PRCMO, and CENRO City of San Juan.		
SAN JUAN RIVER SYSTEM	Kaliraya Rd., Barangay Tatalon, Quezon City	November 19, 2024	No presence of solid waste was observed in the area. Black color of the water. Heavy volume of solid waste was observed in the area. Area installed with Trash Trap of EMB-NCR.	Reported to MEO East for appropriate action. A recent cleanup is conducted as per MEO east in coordination with DSQC.	
PASIG RIVER SYSTEM – MAKATI CITY	Lambingan Bridge, Barangay Mabini J Rizal	November 27, 2024	Low volume of water hyacinth observed in the area. Low volume of solid waste observed in the area. Brown color of water.	PRCMO conducting daily maintenance of the waterway stretch.	



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			PRCMO conducting daily maintenance of the waterway stretch. Fast flow of water due to heavy rainfall.		
PASIG RIVER SYSTEM – MAKATI CITY	Estrella – Pantaleon Bridge, Barangay Barangka Itaas	November 27, 2024	Low volume of water hyacinth observed in the area. Brown color of the water. PRCMO conducting daily maintenance of the waterway stretch. Fast flow of water due to heavy rainfall.	PRCMO conducting daily maintenance of the waterway stretch.	
MARIKINA RIVER SYSTEM – MARIKINA CITY	Marikina Riverbanks, Barangay Barangka	November 27, 2024	No presence of floating solid waste was observed in the area. Unimpeded flow of water Brown color of water due to resuspension of sediments in the waterway mainly due to the ongoing Dredging of Upper Marikina River within the waterway by the DPWH Ongoing dredging of Marikina River by DPWH	Ongoing dredging of Marikina River by DPWH	



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MARIKINA RIVER SYSTEM	A. Bonifacio Bridge, Barangay Sto. Niño	November 27, 2024	No presence of floating solid waste and water hyacinths was observed in the area. Unimpeded flow of water Ongoing dredging of Marikina River by DPWH.	Ongoing dredging of Marikina River by DPWH	
MARIKINA RIVER SYSTEM	Tumana Bridge, Barangay Tumana	November 27, 2024	No presence of floating solid waste was observed in the area. Ongoing Dredging of Upper Marikina River within the waterway by the Marikina LGU Unimpeded flow of water	Ongoing Dredging of Upper Marikina River within the waterway by the Marikina LGU	
			sediments in the waterway.		
SAN JUAN RIVER SYSTEM – QUEZON CITY	Lambingan Bridge- Brgy. Salapan, Quezon City	November 27, 2024	Low volume of solid waste observed in the area. Area installed with Trash Trap of EMB-NCR. Brown color of the water. Unimpeded flow of water. Stationed for clean-up of EMB, PRCMO, and CENRO City of San Juan.	Stationed for clean-up of EMB, PRCMO, and CENRO City of San Juan.	
PARAÑAQUE RIVER/ TRIPAYA DE GALLINA – PASAY CITY	Buendia Bridge, Brgy 46 & 51	November 28, 2024	Moderate volume of solid waste and no water hyacinth were observed on the area	Reported to MEO West for appropriate action. A cleanup was scheduled by MEO West.	



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DECEMBER 2024					
PASIG RIVER SYSTEM – CITY OF MANILA	Mabini Bridge, Barangay 640	December 5, 2024	Moderate volume of water hyacinths Brown color of the water. Fast flow of water due to heavy rainfall.	For continuous monitoring and documentation.	 5 Dec 2024 19:54:29 am A8940C77-E71F-4B9D-BEAD-000000000000
PASIG RIVER SYSTEM – MAKATI CITY	Lambingen Bridge, Barangay Mabini J Rizal	December 5, 2024	Low volume of water hyacinth observed in the area. Low volume of solid waste observed in the area. Brown color of water. PRCMO conducting daily maintenance of the waterway stretch. Fast flow of water due to heavy rainfall.	PRCMO conducting daily maintenance of the waterway stretch.	 5 Dec 2024 19:54:29 am A8940C77-E71F-4B9D-BEAD-000000000000
SAN JUAN RIVER SYSTEM – MANDALUYONG CITY	Bacood – Mandaluyong Bridge , Brgy. 620 & 893, Manila	December 5, 2024	Low volume of floating solid waste was observed in the area Unimpeded flow of water. Black color of water due to sewage pollution mostly occurred in urban areas. Waterway being maintained by PRCMO.	PRCMO is conducting daily clean-up of the waterway.	 5 Dec 2024 11:05:18 am A8940C77-E71F-4B9D-BEAD-000000000000
SAN JUAN RIVER SYSTEM – QUEZON CITY	Sevilla Bridge, Barangay Daang Bakal, Manila	December 5, 2024	High volume of solid waste observed in the area. Area installed with PRCMO Floating Trash Trap to control the solid waste. Waterway being maintained by PRCMO.	Documentation of the cleanup being conducted by River Warriors of PRCMO.	 5 Dec 2024 11:05:18 am A8940C77-E71F-4B9D-BEAD-000000000000



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			Unimpeded flow of water.		
SAN JUAN RIVER SYSTEM – QUEZON CITY	Lambingan Bridge- Brgy. Salapan, Quezon City	December 5, 2024	Low volume of solid waste observed in the area. Area installed with Trash Trap of EMB-NCR. Brown color of the water. Unimpeded flow of water. Stationed for clean-up of EMB, PRCMO, and CENRO City of San Juan.	No significant issues observed. For continuous monitoring and documentation.	
PARAÑAQUE RIVER/ TRIPADA DE GALLINA – PASAY CITY	Buendia Bridge, Brgy 46 & 51	December 6, 2024	High volume of solid waste was observed on the area Reported to MEO West for appropriate action.	Reported to MEO West for appropriate action. A cleanup was scheduled by MEO West.	
			A cleanup was scheduled by MEO West.		
PASONG DIABLO RIVER – MUNTINGLUPA CITY	Cupang Bridge, Barangay Cupang & Barangay Alabang	December 6, 2024	Low volume of solid wastes accumulated in the trash trap. High volume of water hyacinth.	MEO South conducting daily clean-up.	



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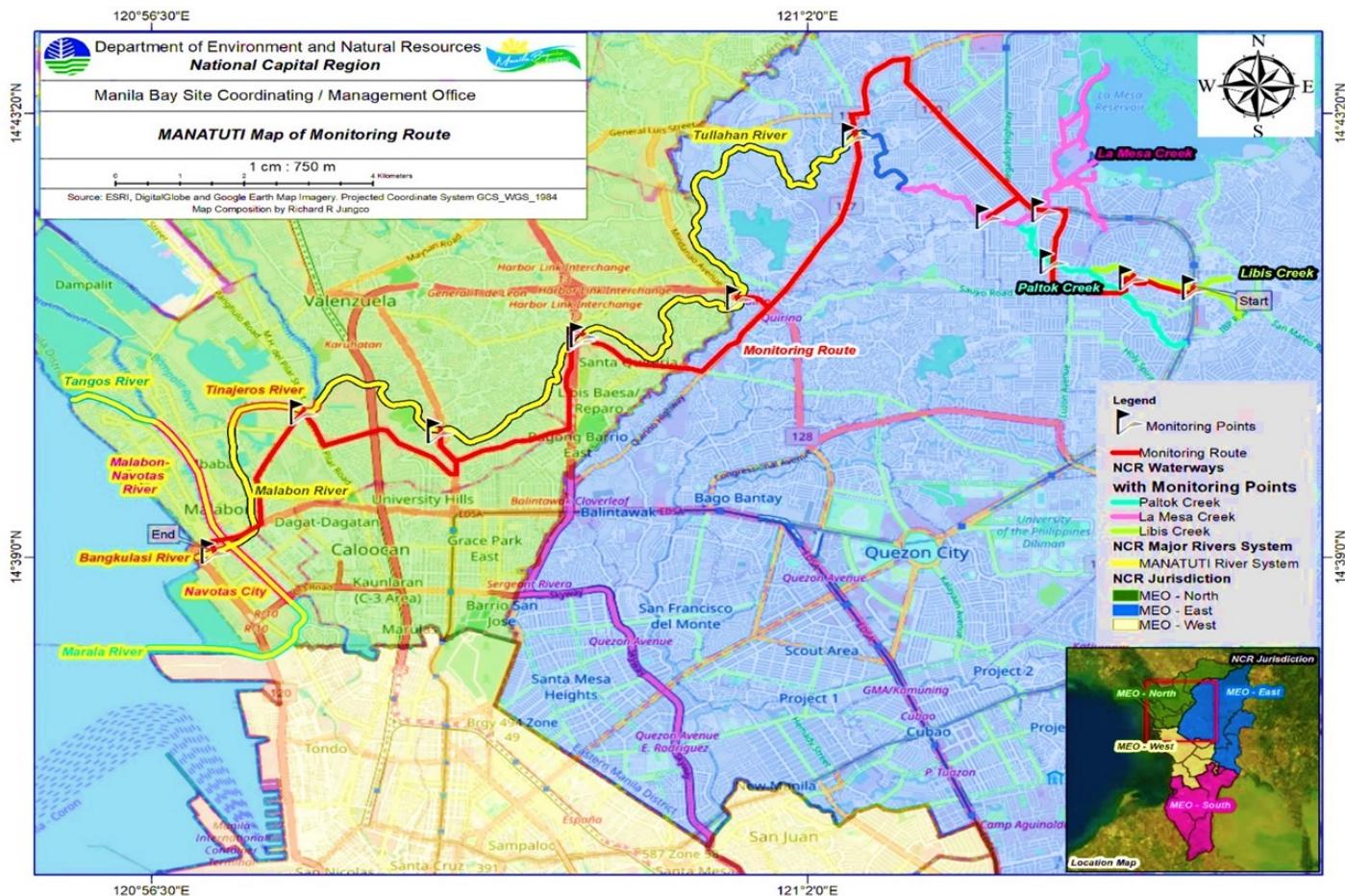
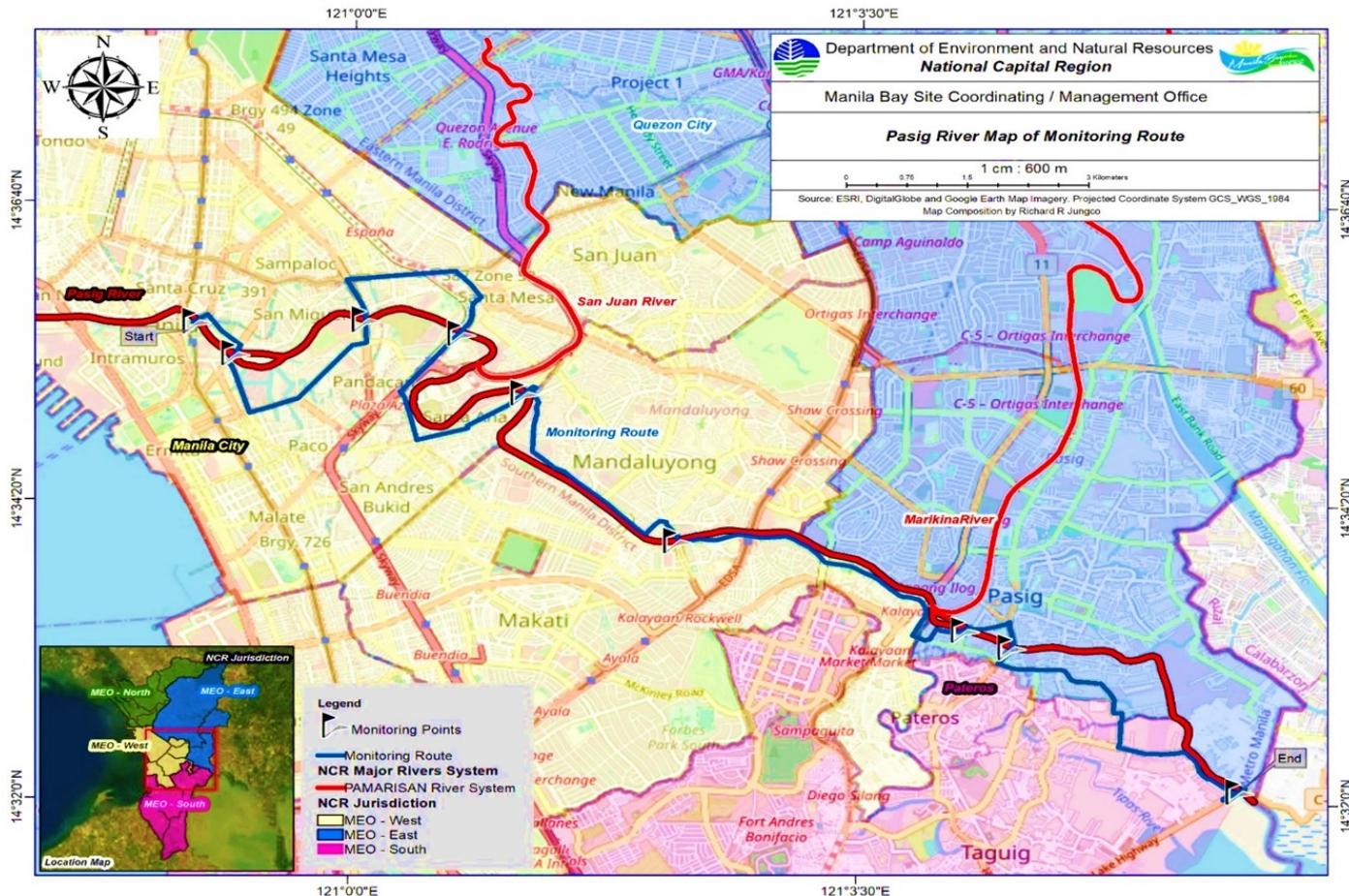


Figure 215. Quick Response Team Route - MANATUTI River System.



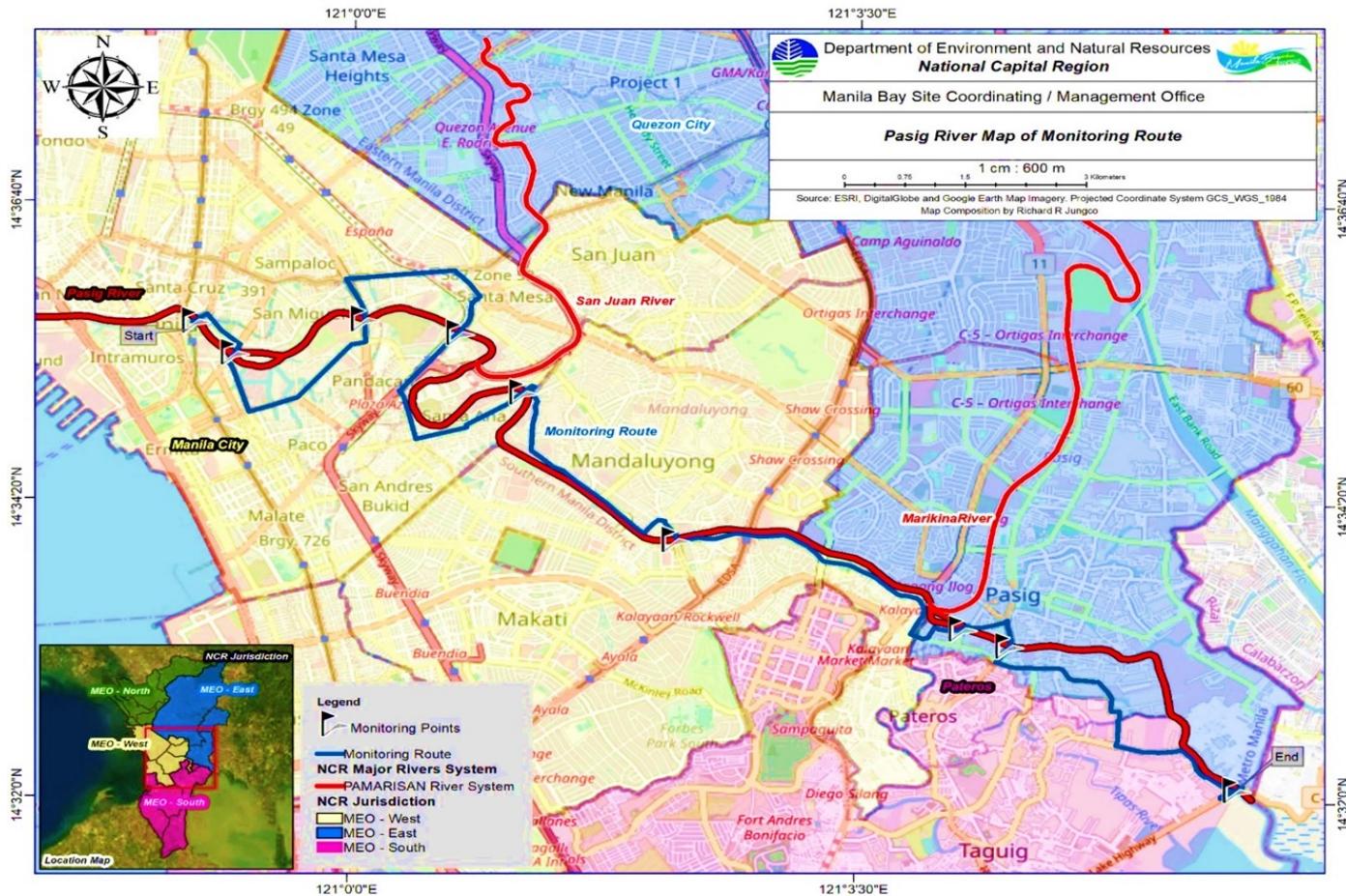
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**Figure 216. Quick response Team –
PAMARISAN River System Route (Pasig)**



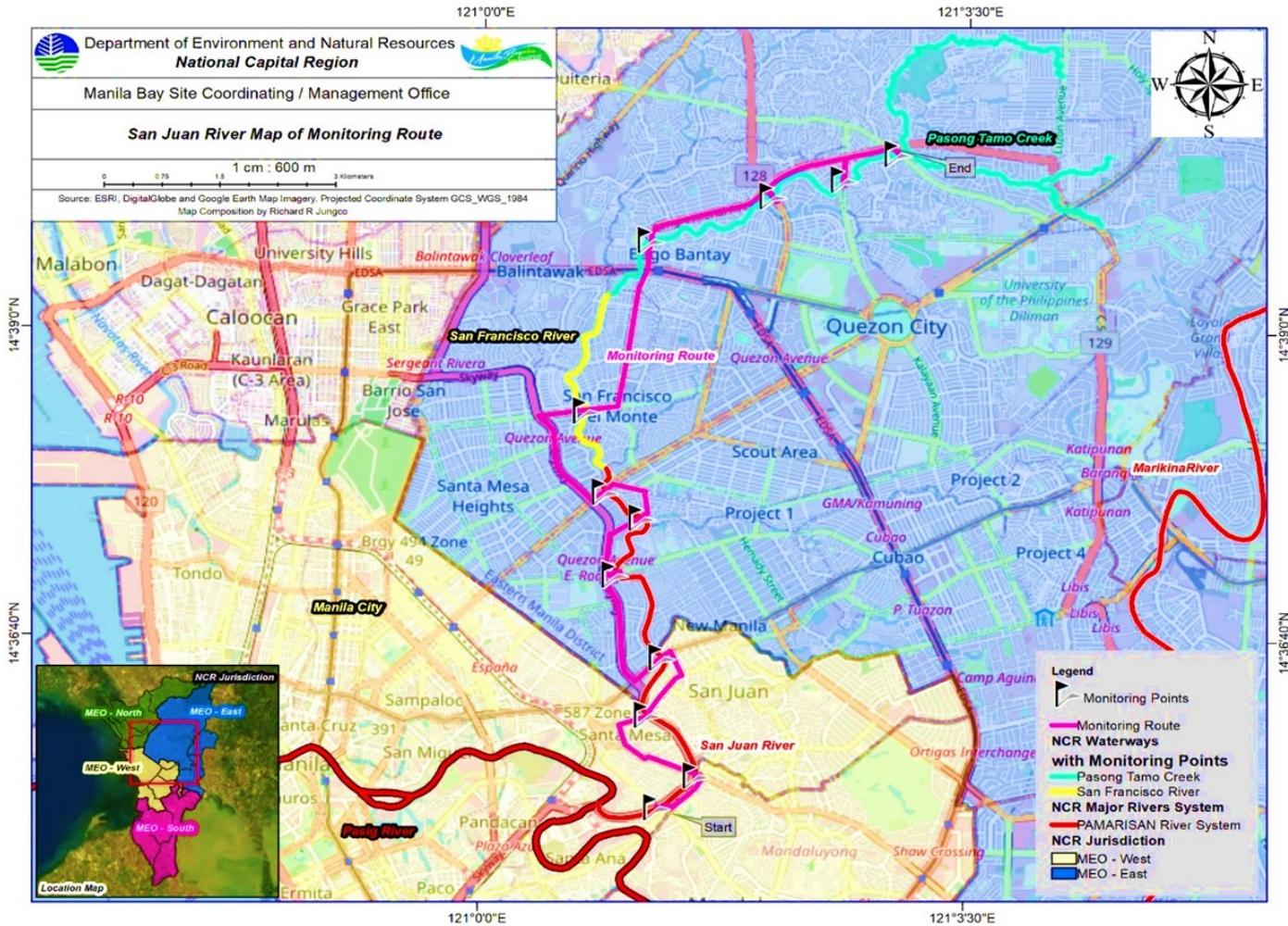
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**Figure 217. Quick response Team –
PAMARISAN River System Route (Pasig)**



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**Figure 218. Quick Response Team –
PAMARISAN River System Route (San**



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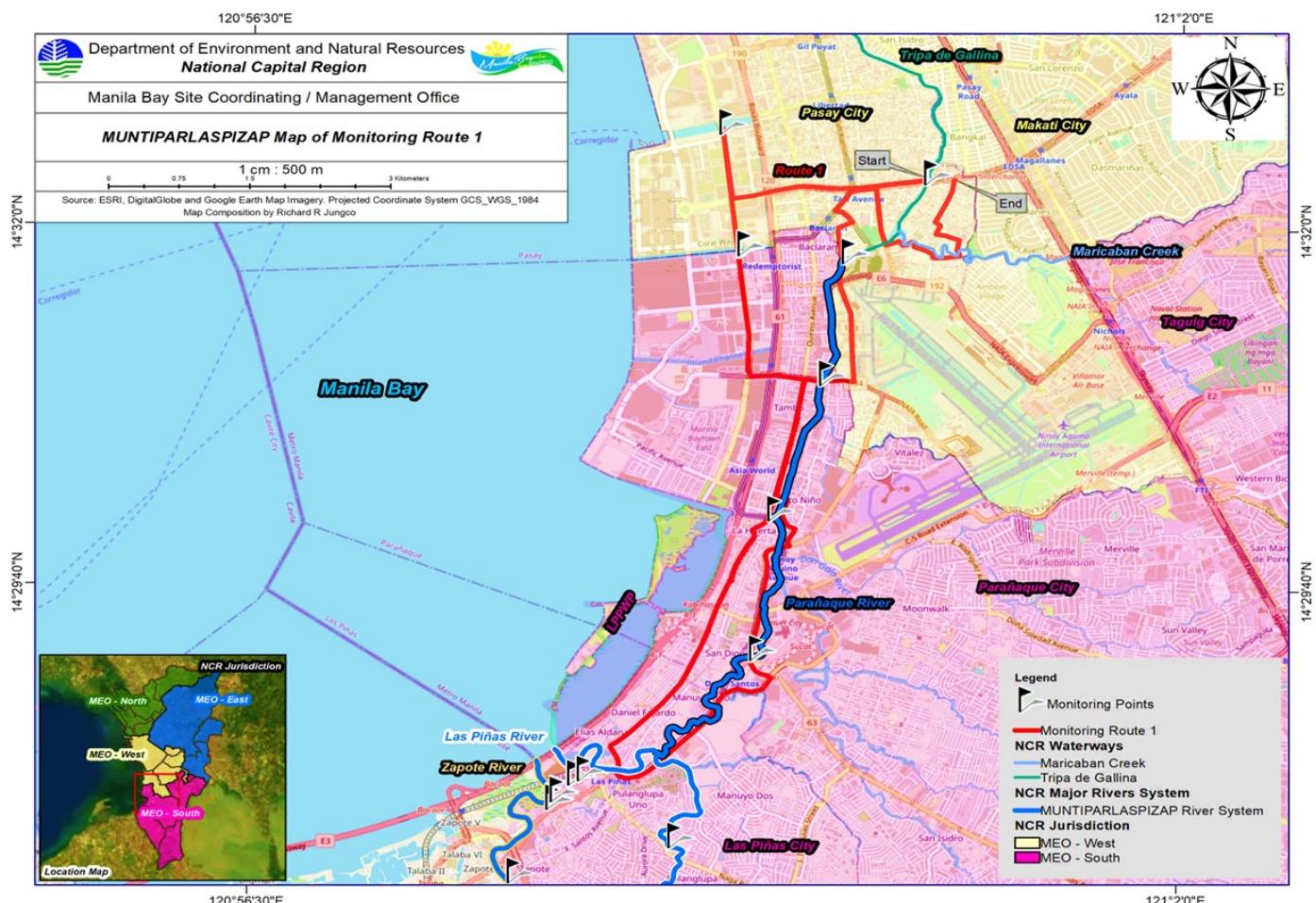


Figure 219. Quick Response Team Route – MUNIPARLASPIZAP River System (Parañaque River).



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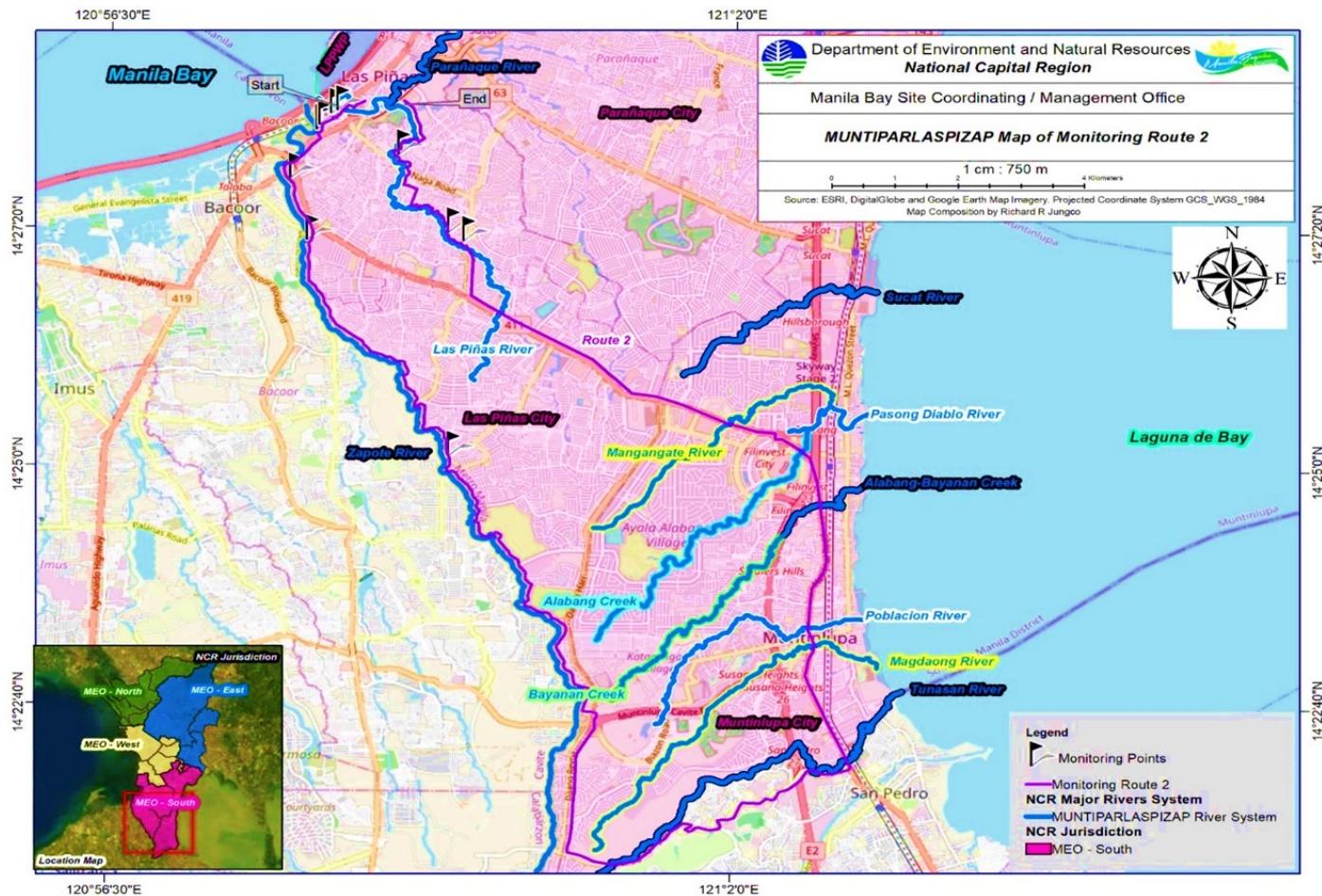


Figure 220. Quick Response Team Route – MUNIPARLASPIZAP
(Muntinlupa-Parañaque-Las Piñas).



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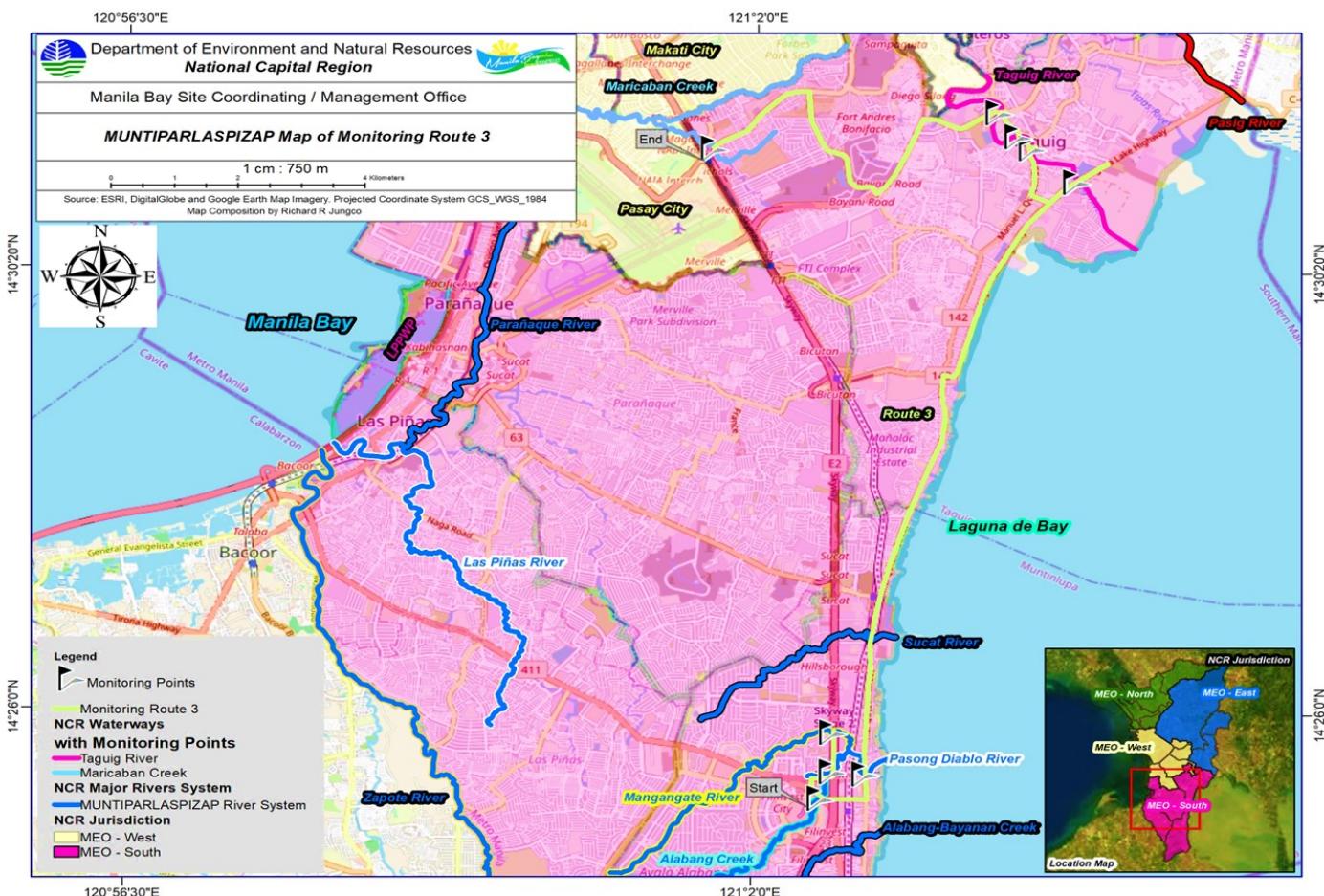


Figure 221. Quick Response Team Route – MUNTPARLASPIZAP (Muntinlupa-Taguig).



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Table 27: List of LGUs coordinated in line with the conduct of drone and ground surveys.

Date	City / Municipality	Waterway	Office / Agency
January 2024	Manila	Parañaque River	Brgy. Tambo
			Brgy. Don Galo
			Brgy. Huerta
			Brgy. Sto. Niño
February 2024	Malabon-Navotas	Batasan River	Brgy. Tanza
			Brgy. Hulong Duhat
			Brgy. Flores
			Brgy. Baritan
March 2024	Valenzuela	Coloong River	Brgy. Balangkas
			Brgy. Bisig
			Brgy. Tagalag
	Parañaque City	Parañaque River	Artista Place Office
			SM Supermarket Warehouse Office
April 2024	Quezon City	La Mesa Creek	Brgy. North Fairview
			Brgy. Lagro
			Brgy. Fairview Sitio Ruby
May 2024	Makati	Pateros River	Brgy. Pembo
	Pateros		Brgy. Comembo
	Taguig	Taguig River	Brgy. Martirez del 96
June 2024	Quezon City	Lupang Pangako Creek	Taguig LGU
			Brgy. Commonwealth
			Brgy. Payatas
			Brgy. Bagong Silangan
July 2024	Makati City Pasay City	Maricaban Creek	HOA of Mountains View Subdivision
			Brgy. 176
			Brgy. 177
			Brgy. 183
			Brgy. 186
			Brgy. Magallanes
	Muntinlupa City	Alabang Creek	Ayala-Alabang Village Association
			Brgy. Alabang
			Brgy. Ayala-Alabang
		Palico Creek	Brgy. Cupang
		East Cabulusan Creek	Brgy. Buli



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Date	City / Municipality	Waterway	Office / Agency
August 2024	Valenzuela City	Maysan-Canumay Creek	Brgy. Lingunan
			Brgy. Canumay West
			Brgy. Lawang Bato
			Brgy. Punturin
September 2024	Manila City	Estero de Pandacan	Brgy. 863
	Muntinlupa City	Cabulusan Creek	Logwin Air + Ocean Phils. Inc.
	Makati City Pasay City	Maricaban Creek	Brgy. 181
October 2024	Valenzuela City	Polo River	Brgy. Rincon
			Brgy. Isla
			Brgy. Malinta
	Quezon City	Libis Creek	COA Engineering Department
			IRAHAI HOA IDEAL Subdivision
November 2024	Quezon City	Anaranan Creek	Brgy. Bungad
			Brgy. PhilAM
			Brgy. West
			Philippine Science High School
			PhilAM Admin



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Table 31. List of Sites assessed for greening 2024.

No.	Date of Assessment	Location	Waterways	Area (sq.m.)	Remarks
1	January 18, 2024	Brgy. 836, Zone 91, Pandacan, Manila City	Pasig River	10	Not suitable
2	January 23, 2024	Brgy. NBBS Kaunlaran, Navotas City	Bangculasi River	20	Not suitable
3	January 23, 2024	Brgy. NBBS Dagatdagan, Navotas City	Bangculasi River	2,091	Suitable
4	January 30, 2024	Brgy. Lower Bicutan, Taguig City	C6 Road Man-made Creek	1,636	Not suitable
5	January 31, 2024	Brgy. Canumay West, Valenzuela City	Canumay Creek	400	Suitable
6	January 31, 2024	Brgy. Paso De Blas, Valenzuela City	Canumay Creek	70	Suitable
7	January 31, 2024	Brgy. 162, Caloocan City	Tullahan River	1,104	Suitable
8	February 2, 2024	Brgy. Tambo, Parañaque City	Redemptorist Channel	300	Not suitable
9	February 2, 2024	Brgy. San Dionisio, Parañaque City	San Dionisio River	160	Suitable
10	February 2, 2024	Brgy. Marcelo Green, Parañaque City	Pagsisihan Creek	60	Not suitable
11	March 5, 2024	Brgy. Tinajeros, Malabon City	Tullahan River	395	Suitable
12	April 18, 2024	Brgy. Lingunan, Valenzuela City	Lingunan Creek	445	Linear Park Enhancement Project CY 2025
13	May 7, 2024	Brgy. Napindan, Taguig City	Tipas-Napindan C6 Man made Creek	1,368	Not suitable
14	May 15, 2024	Brgy. San Pedro, Municipality of Pateros	Pateros River	101	Not suitable
15	June 28, 2024	Brgy. 76 Zone 10, Pasay City	Redemptorist Channel	3,446	Not suitable



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No.	Date of Assessment	Location	Waterways	Area (sq.m.)	Remarks
16	June 28, 2024	Brgy. Talong Tres, Las Piñas City	Mañarigo Creek	323	Not suitable
17	July 2, 2024	Brgy. Sta. Lucia, Pasig City	Mabuhay Creek	1,051	Suitable
18	July 5, 2024	Brgy. San Dionisio, Parañaque City	Malabon Creek	3,473	Suitable
19	August 8, 2024	R6, Sampaloc, Manila City	N/A (Center Island)	1,782	Suitable
20	August 15, 2024	Brgy. Canumay West, Valenzuela City	Canumay Creek (2nd Site)	140	Suitable
21	September 12, 2024	Brgy. Canumay West, Valenzuela City	Canumay Creek (3rd Site)	300	Suitable
22	October 10, 2024	Brgy. 162, Caloocan City	Tullahan River	350	Suitable
23	October 11, 2024	Brgy. Longos, Malabon City	Bangculasi River	506	Suitable
24	November 20, 2024	Brgy. Potrero, Malabon City	Tullahan River	498	Linear Park Enhancement Project CY 2025



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Table 33. List of bamboo and indigenous trees planted area for CY 2024.

DATE OF PLANTING ACTIVITY	LOCATION	WATER-WAYS	AREA (sq.m.)	NO. OF SEEDLINGS PLANTED	SPECIES OF SEEDLING/PROPAGULE PLANTED
July 10, 2024	Brgy. Sta. Lucia, Pasig City	Mabuhay Creek	1,051	130	100 Chinese Bamboo, 30
July 17, 2024	Brgy. San Dionisio, Parañaque City	San Dionisio River	160	120	60 Thailand Bamboo, 10 Banaba, 50 Picara, 50 Birds of Paradise
August 8, 2024	Brgy. Paso De Blas, Valenzuela City	Canumay Creek	70	30	20 Thai Bamboo
August 16, 2024	Brgy. Canumay West, Valenzuela City	Canumay Creek	400	110	30 Thai Bamboo, 5 Banaba, 50 Birds of Paradise
October 8, 2024	Brgy. 162 Caloocan City	Tullahan River	1104	40	10 Kawayang Tinik, 10
October 11, 2024	Brgy. NBBS Dagat-dagatan, Navotas City	Bangcu-lasi River	2091	40	10 Kawayang Tinik, 10
November 12, 2024	Brgy. 162 Caloocan City	Tullahan River	350	100	100 Kawayang Bayog
November 15, 2024	Brgy. Longos, Malabon City	Bangcu-lasi River	506	210	160 Kawayang Bayog, 30
		TOTAL	5,732	890	



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Table 42. List of Pasig River Unified Monitoring Stations

STATION NAME	COORDINATES	
	LAT (N)	LONG (E)
<i>Stations at the main Pasig River</i>		
Jones Bridge	14.5955	120.9774
Nagtahan Bridge	14.5954	121.0016
Lambingan Bridge	14.5864	121.0200
Guadalupe Ferry	14.5681	121.0459
Bambang Bridge	14.5536	121.0759
Napindan (C6) Bridge	14.5351	121.1022
<i>Stations at Marikina River</i>		
Batasan Bridge	14.6794	121.1097
Tumana Bridge	14.6564	121.0963
Marikina Bridge	14.6343	121.0933
Rosario Bridge	14.5902	121.0831
Santa Rosa Bridge	14.5600	121.0721
<i>Stations at San Juan River</i>		
Sevilla Bridge	14.5941	121.0260
<i>Stations at Taguig-Pateros River</i>		
Santa Ana Bridge	14.5259	121.0735
Levi Mariano Bridge	14.5317	121.0687
Buting Bridge	14.5549	121.0652
<i>Stations at the minor tributaries directly draining to Pasig River</i>		
Havana Bridge	14.5795	121.0157
Guadalupe Viejo	14.5675	121.0402
Guadalupe Nuevo	14.5677	121.0471
<i>Station at the confluence of Pasig River and Manila Bay</i>		
Manila Bay	14.5930	120.9464



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Table 43. Water Quality Monitoring Results of the stations of the Main Pasig River (3rd Quarter of 2024)

PRUMS STATIONS	PASSED	FAILED	REMARKS
Napindan (C6 Bridge)	BOD, DO, TSS, Nitrate, Color, Temperature, pH	Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline
Bambang Bridge	BOD, DO, TSS, Nitrate, Color, Temperature, pH	Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline
Guadalupe Ferry	BOD, TSS, Nitrate, Color, Temperature, pH	DO, Fecal Coliform, Phosphate, Ammonia	3 Parameters out of 10 Parameters have passed the Class C guideline
Lambingan Bridge	BOD, TSS, Nitrate, Color, Temperature, pH	DO, Fecal Coliform, Phosphate, Ammonia	4 Parameters out of 10 Parameters have passed the Class C guideline
Nagtahan Bridge	BOD, TSS, Nitrate, Color, Temperature, pH	DO, Fecal Coliform, Phosphate, Ammonia	4 Parameters out of 10 Parameters have passed the Class C guideline
Jones Bridge	BOD, TSS, Nitrate, Color, Temperature, pH	DO, Fecal Coliform, Phosphate, Ammonia	4 Parameters out of 10 Parameters have passed the Class C guideline



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Table 44. Water Quality Monitoring Results of the Stations in Major Tributaries (3rd Quarter of 2024)

PRUMS STA-TIONS	PASSED	FAILED	REMARKS
Batasan Bridge (Marikina River)	BOD, Nitrate, Color, Temperature, pH	DO, TSS, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline
Tumana Bridge (Marikina River)	BOD, Nitrate, Color, Temperature, pH	DO, TSS, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline
Marikina Bridge (Marikina River)	Nitrate, Color, Temperature, pH	BOD, DO, TSS, Fecal Coliform, Phosphate, Ammonia	4 Parameters out of 10 Parameters have passed the Class C guideline
Rosario Bridge (Marikina River)	BOD, Nitrate, Color, Temperature, pH	DO, TSS, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline
Santa Rosa Bridge (Marikina River)	BOD, TSS, Nitrate, Color, Temperature, pH	DO, Fecal Coliform, Phosphate, Ammonia	6 Parameters out of 10 Parameters have passed the Class C guideline
Santa Ana Bridge (Taguig-Pateros River)	TSS, Nitrate, Color, Temperature, pH	BOD, DO, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline
Levi Mariano Bridge (Taguig-Pateros River)	TSS, Nitrate, Color, Temperature, pH	BOD, DO, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline
Buting Bridge (Taguig-Pateros River)	TSS, Nitrate, Temperature, pH	BOD, DO, Fecal Coliform, Phosphate, Color, Ammonia	4 Parameters out of 10 Parameters have passed the Class C guideline
Sevilla Bridge (San Juan River)	TSS, Nitrate, Color, Temperature, pH	BOD, DO, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline



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Table 45. Water Quality Monitoring Results of the Stations in Minor Tributaries
(3rd Quarter of 2024)

PRUMS STATIONS	PASSED	FAILED	REMARKS
Guadalupe Nuevo	TSS, Nitrate, Color, Temperature, pH	BOD, DO, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline
Guadalupe Viejo	TSS, Nitrate, Color, Temperature, pH	BOD, DO, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline
Havana Bridge	BOD, Nitrate, Color, Temperature, pH	DO, TSS, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 10 Parameters have passed the Class C guideline

Table 46.
Water Quality Monitoring Results of the Manila Bay Station
(3rd Quarter of 2024)

PRUMS STATIONS	PASSED	FAILED	REMARKS
Manila Bay-Pasig River Confluence	BOD, Nitrate, Color, Temperature, pH	DO, TSS, Fecal Coliform, Phosphate, Ammonia	5 Parameters out of 9 Parameters have passed the Class C guideline



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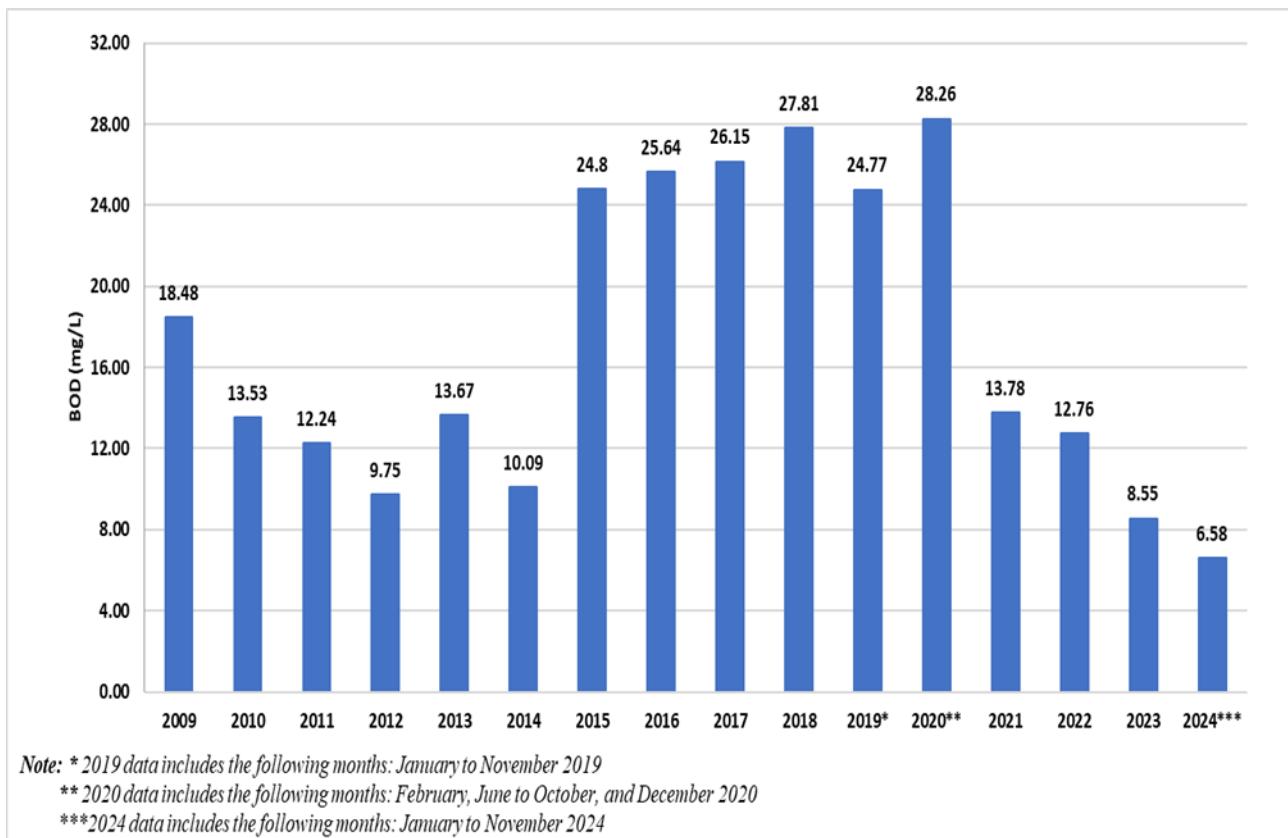


Figure 275. 2009-2024 BOD concentration at the main Pasig River



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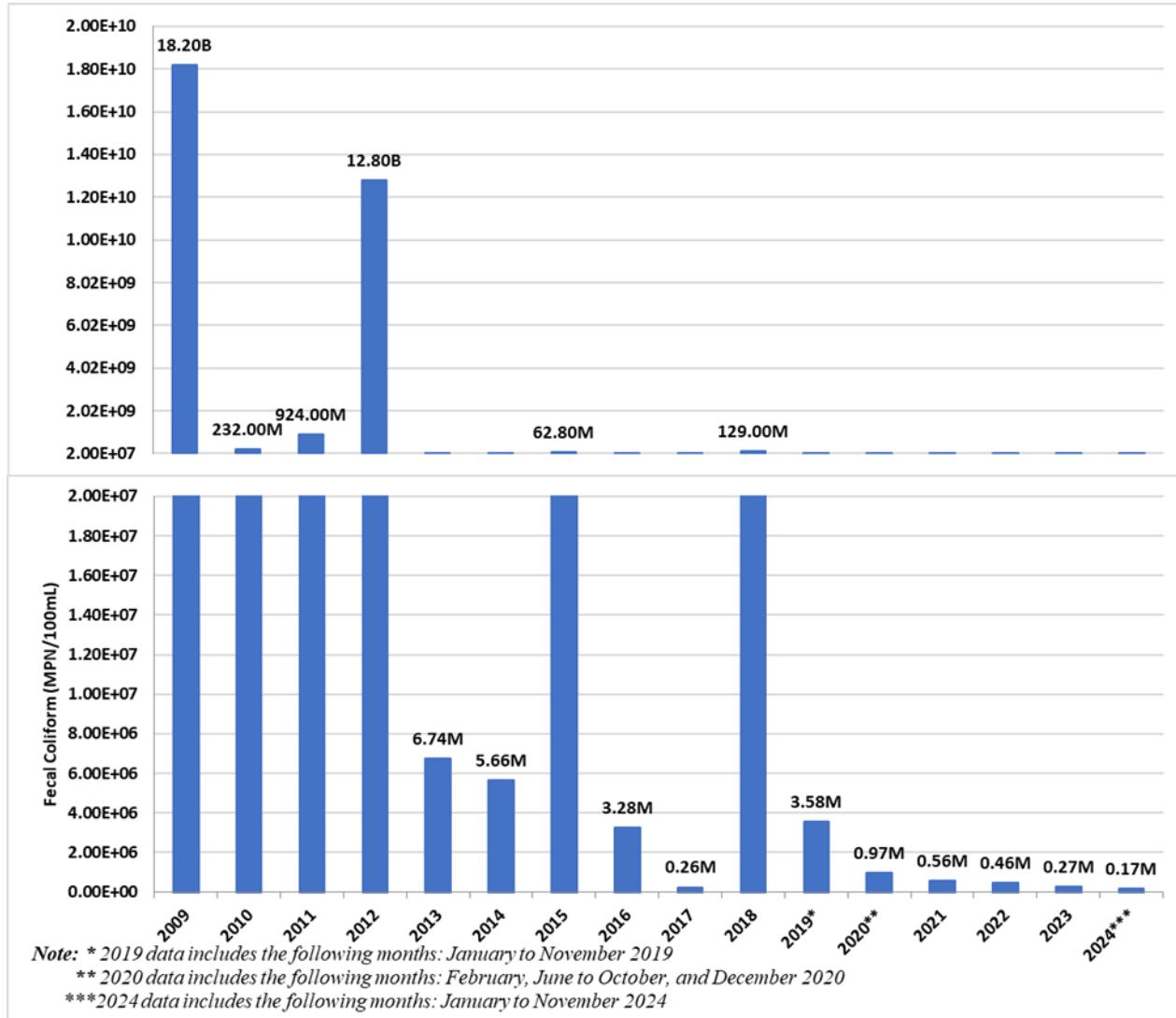


Figure 276. 2009-2024 Fecal Coliform Count at the main Pasig River

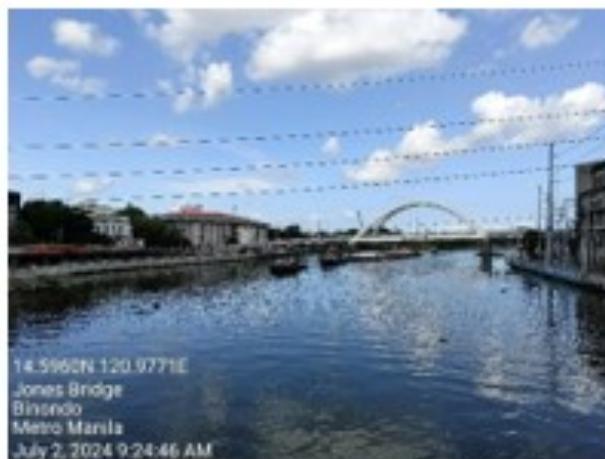


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14.5904N 120.9520E
Port Area
Metro Manila
July 2, 2024 8:47:18 AM

Manila Bay



14.5962N 120.9771E
Jones Bridge
Binondo
Metro Manila
July 2, 2024 9:24:46 AM

Jones Bridge (main Pasig River)



14.585532N 121.002048E
Paco
Metro Manila
July 6, 2024 10:04:57 AM

Nagtahan Bridge (main Pasig River)



Sept 10, 2024 11:34:52
14.5864N 121.0198E
30301 New Paraderos
Santa Ana
Metro Manila

Lambingen Bridge (main Pasig River)



Sept 10, 2024 11:15:34
14.5795N 121.0158E
Havana
Santa Ana
Metro Manila

Havana Bridge (minor tributary)



14.5943N 121.0263E
9 Hng
Mandaluyong
Metro Manila
July 2, 2024 11:32:39 AM

Sevilla Bridge (San Juan River)



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Aug 8, 2024 7:59:52 AM
Batasan-San Mateo Road
Quezon City
Metro Manila

Batasan Bridge (Marikina River)



14.656543N 121.096350E
San Mateo
Rizal
Calabarzon
Sep 12, 2024 8:46:46 AM

Tumana Bridge (Marikina River)



Aug 8, 2024 8:52:10 AM
Marikina
Metro Manila

Marikina Bridge (Marikina River)



14.656111N 121.053550E
Dr. Guillermo Avenue
Paranaque
Metro Manila
Aug 10, 2024 10:38:22 AM

Buting Bridge (Taguig-Pateros River)



14.525980N 121.073637E
Pasig
Metro Manila
Aug 7, 2024 9:26:24 AM

Santa Ana Bridge (Taguig-Pateros River)

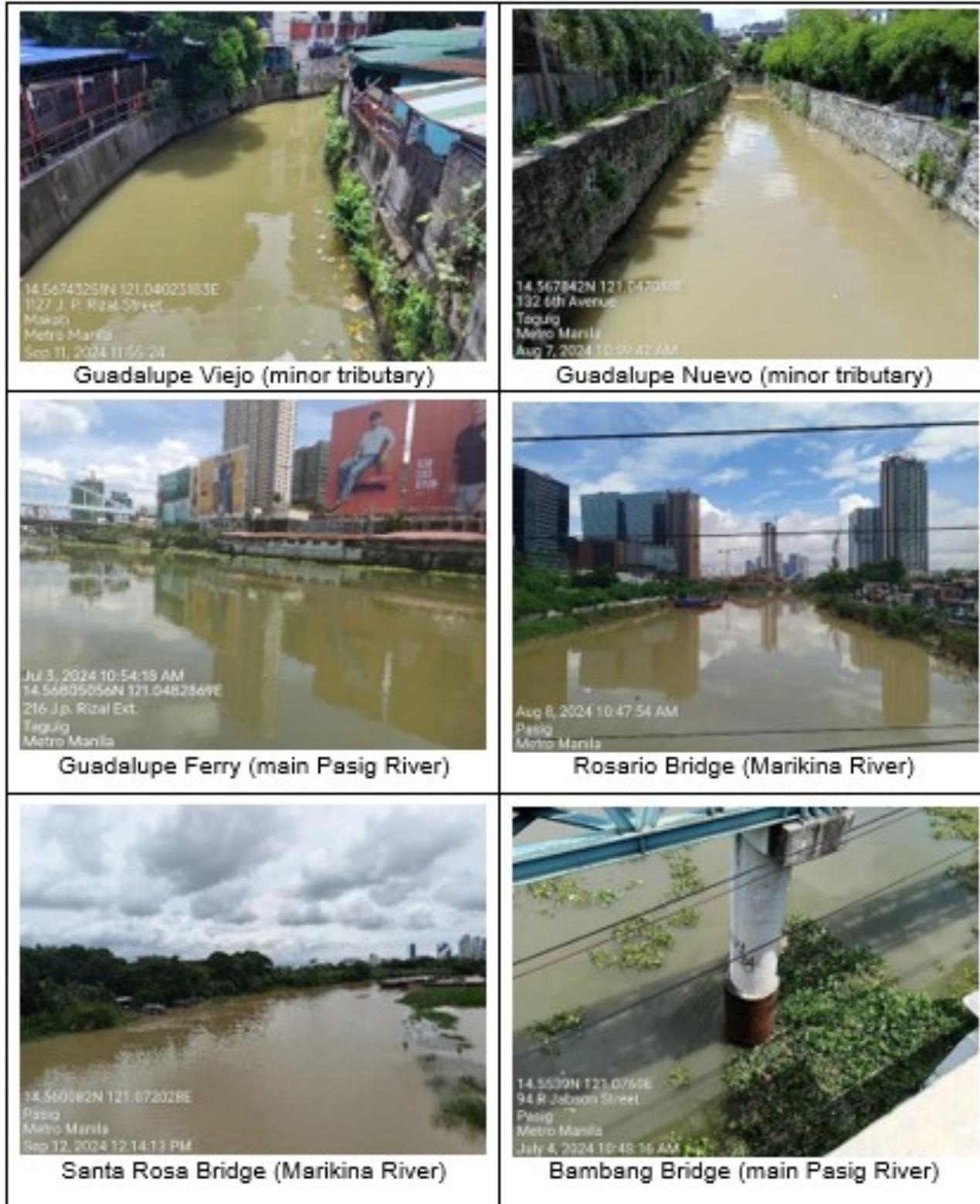


14.5317535N 121.0586017E
Liev B. Mariano Avenue
Taguig
Metro Manila
Sep 11, 2024 3:04:34

Levi Mariano Bridge



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Figure 277. Water quality monitoring stations within the Pasig River System

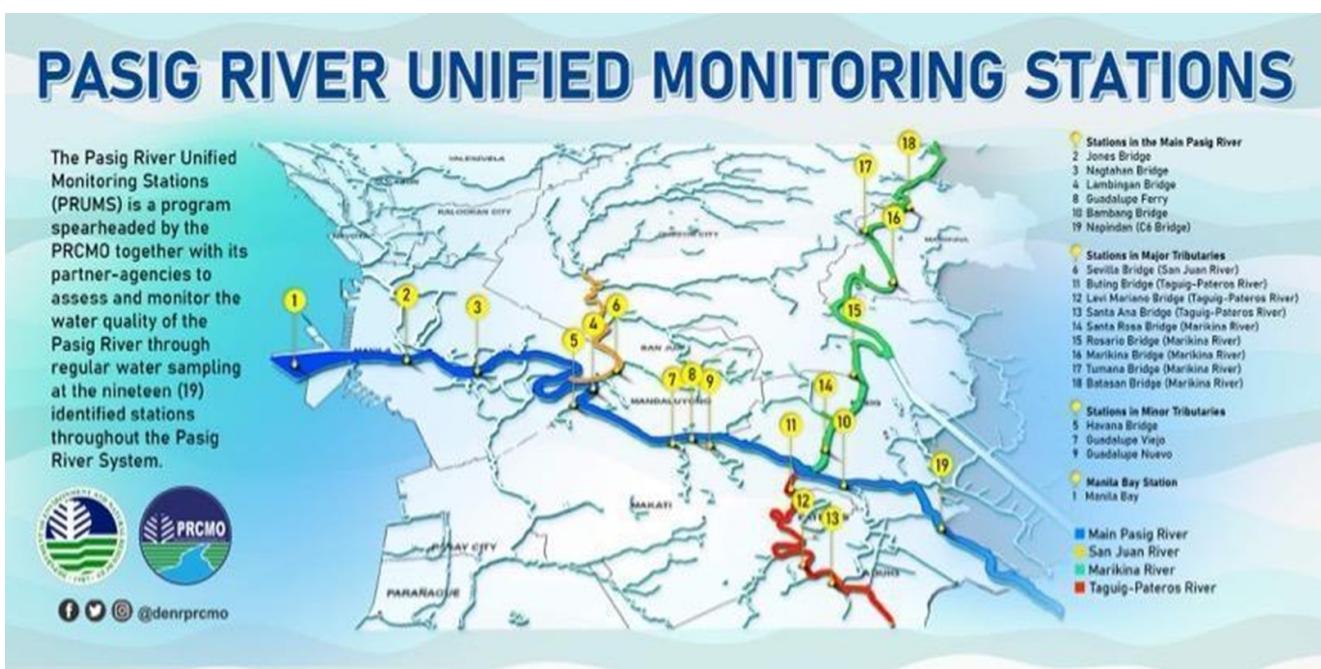


Figure 278. Pasig River Unified Monitoring Stations (PRUMS)



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Table 47. Total number of inventoried establishments per category for CY 2024

River/Estero	Commercial Establishments	Industrial Establishments	Institutions	Special Purpose (e.g. church, hospital, hotels, government offices, etc.)	No. of Inventoried Establishments
Pasig River (whole stretch)	240	72	30	156	498
Estero de Valencia	3	0	2	4	9
Estero dela Reina	121	8	5	21	155
Estero de San Miguel	32	0	8	16	56
Estero de Sampaloc	20	0	3	5	28
Estero de Concordia	13	2	0	7	22
Estero de Paco	15	3	2	8	28
Estero de Balete	11	2	4	4	21
Estero de Tanque	6	2	0	5	13
Estero de Provisor	4	0	0	1	5
Estero de Pandacan	17	4	3	12	36
Estero de Santibañez	1	0	0	1	2
Estero de Sta. Clara	21	2	0	11	34
Balisampan Creek	11	0	1	8	20
Estero de Tripa de Gallina	84	5	13	54	156
Guadalupe Creek	3	0	0	4	7
Daang Paa Creek	28	1	2	4	35
Pineda Creek	2	2	2	4	10
Estero de Magdalena	41	4	7	21	73
Panday Pira River	66	1	2	18	87
TOTAL	739	108	84	364	1,295



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Table 48. Deployment of Environmental Aides.

Cluster	Location	Area of Assignment	No. of Environmental Aides (River Warriors)
I	Manila	Estero de Sunog Apog Estero de San Lazaro Estero de Magdalena Estero de Vitas Estero de Binondo Estero de Kabulusan Estero de Sampaloc Estero de Quaipo Estero de Aviles Estero de San Miguel Estero de Uli-Uli Estero de Valencia Estero de San Sebastian	58
II	Manila, Quezon City	Estero de Paco Estero de Pandacan Estero de Tanque Estero de Provisor Estero de Santibáñez Estero de Concordia Estero Tripa de Galina Mariblo Creek Talayan Creek San Francisco River Pasong Tamo Creek	46
III	Manila, Quezon City, San Juan City, Mandaluyong City, Makati City, Pasig City, Taguig City, Pateros	Pasig River San Juan River Buhangin Creek	42
IV (Quick Response Team)	Manila	Baseco Parola	24
Total:			170



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Figure 286. Photos of daily clean-up operations within the Pasig River System.



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Table 49. List of waterways of the Pasig River system under monitoring.

No.	Name of Waterways
Cluster 1 – Manila City	
1	Estero de Maypajo
2	Estero dela Reina
Cluster 2 – Manila City and Quezon City	
3	Estero de Balete
4	Diliman Creek
5	Culiat Creek
6	Kamias Creek
Cluster 3 – Manila City, Pasig City, Mandaluyong City, San Juan and Makati City	
7	Estero de Sta. Clara
8	Buayang Bato Creek
9	Pineda Creek
10	Balisampan Creek
11	Guadalupe Nuevo Creek
12	Maytunas Creek
13	Ermitano Creek
Cluster 4 – Pateros, Taguig City, Marikina City and Pasig City	
14	Ilugin River
15	Daang Paa Creek
16	Pateros-Taguig River
17	Panday Pira River
18	Tipas River
19	Ibayo Tipas Creek
20	Rio Dayap
21	Mahabang Sapa
22	Sapang Buli
23	Marikina River



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Table 50. List of special and community clean-up activities conducted for FY 2024.

Title of Activity	Date	Total Number of Solid Waste Collection (No. of sacks)	Photo Documentation
1. Special clean-up activity at Pasig River Post Office Area in line with the launching of Pasig River Urban Development (PRUD)	January 17, 2024	964	
2. River Clean-Up Activity with Philippine Coast Guard Sub Stations Malacañang, Pureza and Arocerros	February 3, 17 and 23, 2024	1,496	

Title of Activity	Date	Total Number of Solid Waste Collection (No. of sacks)	Photo Documentation
3. Special Clean-Up Activity at Ilugin River, M.H. Del Pilar Bridge, Barangay Pinagbuhatan, Pasig City	March 14, 2024	1,050	
4. Community Clean-up drive at Barangay Buayang Bato, Mandaluyong City	March 15, 2024	150	



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Title of Activity	Date	Total Number of Solid Waste Collection (No. of sacks)	Photo Documentation
5. Special Clean-up Activity at Ilugin River, Barangay Pinagbuhatan, Pasig City	April 29, 2024	800	
6. Special Clean-up Activity at San Juan River Buhangin Creek	May 24, 2024	1,161	
7. Special Clean-up Activity at Pasig River in line with the launching activity of Pasig River Esplanade	June 23, 2024	1,600	

Title of Activity	Date	Total Number of Solid Waste Collection (No. of sacks)	Photo Documentation
8. Community Clean-up drive at Estero de Tripa Galina	June 28, 2024	600	
9. River Clean-Up Activity with PCG Malacañang	July 21, 2024	442	
10. Special Clean-Up Activity at Estero de Sunog Apog, Barangay 135, Balut, Tondo Manila	August 14, 2024	2,050	



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Title of Activity	Date	Total Number of Solid Waste Collection (No. of sacks)	Photo Documentation
11. Community Clean-up Drive with Barangay 677 at Estero de Paco, City of Manila	August 9, 2024	74	
12. Special clean-up activity at San Juan River and Buhangin Creek, with Barangay 893 and 895, MEO West, River Recycle and DPS Manila	September 27, 2024	902	
13. Community clean-up drive at Pasong Tamo Creek with Barangay Bahay Toro	October 30, 2024	95	
14. Special clean-up activity at Panday Pira River together with MEO South, CENRO Taguig, LRMO, MENRO Pateros and Barangays Ligid Tipas and Sta. Ana	October 29, 2024	1,000	



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Title of Activity	Date	Total Number of Solid Waste Collection (No. of sacks)	Photo Documentation
15. Special clean-up activity at Ilugin River with CENRO Pasig, Eco waste Pasig, Bantay Ilog Pinagbuhanan and Medtronic Philippines	November 15, 2024	1,300	
16. Special clean-up activity along Pasig River with Philippine Coast Guard Sub-Stations Malacañang, Pureza and Aroceros	December 16, 2024	746	

Table 32. Mobilization of Quick Response Team

Title of Activity	Date	Total Solid Waste Collection (No. of sacks)	Photo Documentation
1. Augmentation Clean-Up Activity at Estero de Sunog Apog	January 3-5, 8-12, 15-19, 2024	10,338	
2. Augmentation Clean-Up Activity at Pateros-Taguig River with Zero Co and MEO South	February 29, 2024	500	



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Title of Activity	Date	Total Solid Waste Collection (No. of sacks)	Photo Documentation
3. Augmentation Clean-Up Activity along San Juan River, Barangay Balong Bato	March 5-8, 11-12, 18-22, 2024	3,700	
4. Augmentation Clean-up Activity in Estero de Sta. Clara	April 3, 2024	150	

Title of Activity	Date	Total Solid Waste Collection (No. of sacks)	Photo Documentation
5. Augmentation Clean-up Activity in Estero de Sunog Apog	April 3-4 and 8-19, 2024	6,639	
6. Augmentation Clean-up Activity in San Juan River	April 5 and 8, 2024	777	



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Title of Activity	Date	Total Solid Waste Collection (No. of sacks)	Photo Documentation
7. Augmentation Clean-up Activity in Buhangin Creek	May 6-10, 2024	1,906	
8. Augmentation Clean-up Activity in San Juan River (Sevilla Bridge)	May 14-16 and 21-22, 2024	2,223	
9. Augmentation Clean-up Activity in San Juan River Sta. Ana Manila	June 3-6, 10-14, 19 and 24-28, 2024	4,877	

Title of Activity	Date	Total Solid Waste Collection (No. of sacks)	Photo Documentation
10. Augmentation Clean-Up at San Juan River Bacood and Sevilla Bridge	July 3, 5, 8-12, 16-18 and 23, 2024	6,493	
11. Augmentation Clean-Up Activity at San Juan River Bacood Sta. Ana Manila	August 8-9, 12-14, 21-22, 2024	4,266	
12. Augmentation Clean-Up Activity at San Juan River Bacood Sta. Ana Manila	September 10-13, 17-20, 23-26, 2024	6,063	



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Title of Activity	Date	Total Solid Waste Collection (No. of sacks)	Photo Documentation
13. Augmentation Clean-Up Activity at Pateros Taguig River – Barangay Aguho Linear Park	October 7-8, 2024	260	 2024 OCT 08 AM DENR NCR-PROMO ENVIRONMENTAL ENFORCEMENT DIVISION QUICK RESPONSE TEAM
14. Augmentation Clean-Up Activity at San Juan River Bacood Sta. Ana Manila	November 25-28, 2024	1,675	 Nov 25-28 2024 10:46:04 AM Distance: 55.4m Speed: 0.0km/h DENR NCR-PROMO ENVIRONMENTAL ENFORCEMENT DIVISION QUICK RESPONSE TEAM
15. Augmentation Clean-Up Activity at Estero de Sunog Apog	December 3-6, 2024	638	 Dec 3-6 2024 10:45:30 AM DENR NCR-PROMO ENVIRONMENTAL ENFORCEMENT DIVISION QUICK RESPONSE TEAM
	Total:	50,505	



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Table 51. Summary of solid waste hauled, transported and disposed of in NSLF, Vitas, Tondo, Manila.

Month	No. of Sacks
January	19,632
February	25,811
March	16,474
April	32,047
May	33,137
June	19,151
July	26,971
August	9,444
September	21,637
October	12,489
November	2,702
Total:	219,495



Figure 93. Photos of hauling and disposal using the mini dump trucks of PRCMO



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Table 52. List of Installed trash traps in Pasig River System

No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
1	Estero de Sunog Apog (Bukid St.)		Plastic	1	RCM Trash trap
2	Estero de Magdalena (Padre Algue/La Torre St.)		Plastic	1	PRCMO Trash trap
3	Estero de Magdalena (Alvarado St.)		Plastic	1	PRCMO Trash trap

No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
4	Estero de Magdalena (Recto Ave.)		Plastic	1	PRCMO Trash trap
5	Estero de San Lazaro (Ongpin St.)		Plastic	1	PRCMO Trash trap
6	Estero dela Reina (Ongpin St.)		Plastic	1	PRCMO Trash trap



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No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
7	Estero de Vitas, Capulong St.		Plastic	1	RCM Trash trap
8	Estero de Binondo (Dasmariñas St.)		Improvised trash trap	1	PRCMO Trash trap
9	Estero de Sampaloc (Lacson Ave.)		Bamboo and pet bottle	1	PRCMO Trash trap
No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
10	Estero de Uli-Uli (Jose Laurel St.)		Pet Bottle Trap	1	PRCMO Trash trap
11	Estero de San Miguel (P. Casal St.)		Plastic	1	RCM Trash trap
12	Estero de Sampaloc (Jose Laurel St.)		Pet Bottle Trap	1	PRCMO Trash trap



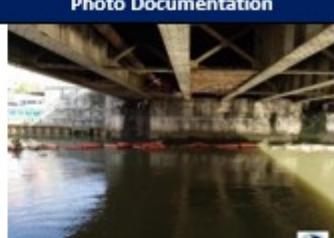
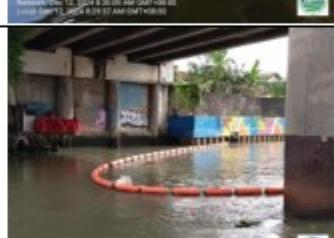
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No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
13	Estero de Quiapo	A photograph showing a red plastic trash boom floating in a dark, polluted river. A small circular logo is visible in the bottom right corner of the photo.	Plastic	1	RCM Trash trap
14	Estero de Paco (Quirino Bridge)	A photograph of a bridge over a river. The water is filled with trash. A small circular logo is visible in the bottom right corner of the photo.	Improvised trash trap	1	PRCMO Trash trap
15	Estero de Provisor	A photograph of a river with a red plastic trash boom floating in it. A small circular logo is visible in the bottom right corner of the photo.	Plastic	1	RCM Trash trap

No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
16	Quezon Bridge	A photograph of a bridge over a river. A red trash boom is visible in the water. A small circular logo is visible in the bottom right corner of the photo.	Trash Boom	1	River Recycle Trash Trap
17	San Juan River (Near New Panaderos Ext.)	A photograph of a river under a bridge. A red trash boom is visible. A small circular logo is visible in the bottom right corner of the photo.	Trash Boom	1	River Recycle Trash Trap
18	San Juan River (Buhangin Creek)	A photograph of a river with a red trash boom. A small circular logo is visible in the bottom right corner of the photo.	Trash Boom	1	River Recycle Trash Trap



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No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
19	San Juan River (Hanging Bridge)		Plastic	1	RCM Trash trap
20	Pasig River (Binondo Intramuros Bridge 1)		Plastic	1	RCM Trash trap
21	Pasig River (Binondo Intramuros Bridge 2)		Plastic	1	RCM Trash trap
No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
22	Pasig River (MacArthur Bridge)		Plastic	1	PRCMO Trash Trap
23	Pasig River (Zamora Bridge 1)		Plastic	1	RCM Trash trap
24	Pasig River (Zamora Bridge 2)		Plastic	1	PRCMO Trash Trap



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No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
25	Mouth of San Juan River	A photograph showing a red trash trap floating in the water near a concrete pier. In the background, there are palm trees and a building under construction. The photo has a timestamp and a small logo in the bottom right corner.	Plastic	1	RCM Trash trap
26	Pasig River (Delpan Bridge)	A photograph taken from under a bridge, looking down the river. A red trash trap is visible in the water. The photo has a timestamp and a small logo in the bottom right corner.	Plastic	1	RCM Trash trap
27	Pasig River Malacañang Restricted Area	A photograph of a long, modern building along the riverbank. A red trash trap is visible in the water in front of the building. The photo has a timestamp and a small logo in the bottom right corner.	Plastic	1	PRCMO Trash trap

No.	List of Trash Traps	Photo Documentation	Type	Quantity	Remarks
28	San Juan River (Sevilla Bridge)	A photograph showing a red trash trap floating in the water under a bridge. The bridge structure is visible above. The photo has a timestamp and a small logo in the bottom right corner.	Plastic	1	RCM Trash trap
29	Pasig River (Jones Bridge)	A photograph taken from under a bridge, looking down the river. A red trash trap is visible in the water. The photo has a timestamp and a small logo in the bottom right corner.	Plastic	1	RCM Trash trap



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Table 53. List of Developed Easements and Linear Parks along the Pasig River System

No.	Name of Waterway	Location
1	Estero de Sampaloc	Manila City
2	Estero de Valencia	Manila City
3	Estero de Aviles	Manila City
4	Estero de Uli-Uli	Manila City
5	Estero de San Miguel	Manila City
6	Estero de Kabulusan	Manila City
7	Estero dela Reina	Manila City
8	Estero de Binondo	Manila City
9	Estero de Magdalena	Manila City
10	Estero de Paco	Manila City
11	Estero de Concordia	Manila City
12	Estero de Santibanez	Manila City
13	Estero de Pandacan	Manila City
14	San Juan River – Brgy. Talayan & Mariblo	Quezon City
15	Ermitanyo Creek	San Juan City
16	Maytunas Creek	Mandaluyong City
17	San Juan River – Brgy. Batis & Balong Bato	San Juan City
18	Taguig-Pateros River	Pateros
19	Pasig River – Brgy. Pineda	Pasig City
20	Pasig River – Brgy. Poblacion	Makati City
21	Pasong Tamo Creek	Quezon City
22	Tumana Creek	Marikina City

