

As a result, it was determined that **51%** of the saplings survived the environmental conditions. This information is useful in assessing the project's environmental, social, and economic impacts, such as biodiversity protection and soil erosion prevention, among others. This proves that JHMC is well informed and aided in arriving at a better judgment on the effectiveness and sustainability of its reforestation initiatives, including Stakeholder Communities.



JHMC Foresters, together with the Barangay Representative, during the validation and assessment conducted on 27 June 2023 at the Communal Forest of Barangay Daclan, Tublay, Benguet.

A.6.4 Sustainable Development and Environmentally-Friendly Value Chain

a. Forest Protection and Management

JHMC has been the steward of this precious home of a dense Pine Forest and watershed cradle of Baguio City. Camp John Hay, being the 53% remaining forest cover of the City needs to continually ensured of its environmental stability and nurtured of the richness of its forest in many ways possible.

✓ *Forest Enrichment: Annual Tree Planting Activity*

In support to the National Greening Program of the DENR and the JHMC mandate towards sustaining/ maintaining the forest watershed, an active participation of all JHMC Employees with their children, including On-The-Job Trainees (OJTs), and Volunteers from JHSEZ Locators such as Filinvest Development Corporation and its Service Providers (security, ground and forest care, gardeners, and janitorial) had successfully planted 1,025 pots of

Benguet Pine Seedlings last **23 June 2023** at the Voice of America (VOA), Camp John Hay, Baguio City.



The two (2) Youngest Participants of the Tree Planting Activity held in celebration of the 2023 Arbor Day on 23 June 2023 at the VOA, Camp John Hay, Baguio City.

✓ **Collaboration with Stakeholders for Better Forest Protection**

Camp John Hay is a Partner-Recipient of a PhP 2 Million funding for the *Assessment of Bioinvasion and Proliferation of Exotic Plant Species: A Basis for Policy Input on the Management of Exotic Plants and Promotion and Restoration of Native Plants in CJH.*

Related activities for the year are provided in the table below:

Date	Activity	Site
11 May 2023	Work Plan Finalization with UPB, BSU, DENR, WWRRDEC, PENRO and DMMMSU	UP Baguio
17 October 2023	Vegetation Survey	Eco Trail, CJH
14 November 2023		Yellow Trail, CJH
07 December 2023		Blue Trail, CJH
18-20 October 2023	Bird Survey	Eco Trail, CJH
16-17 November 2023		Yellow Trail, CJH
8-9 December 2023		Blue Trail, CJH
17 November 2023	Physico-Chemical Sampling and Tests	Yellow Trail, CJH
8-9 December 2023		Blue Trail, CJH

6 December 2023	Presentation of Project Status and Accomplishment to DENR FASPS, PENRO and DENR-CAR.	DENR-CAR Office
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Some actual photo documentation.

b. Natural Resource Management

- ✓ **Capacity-Building: Forest Stewardship and Natural Resource Management**

As part of biodiversity management, the JHMC collaborated with the DENR and the Academe for workshops intended in crafting Forest Stewardship and Natural Resource Management Programs for the JHRA, as presented below:

Date	NRM Activity	Remarks
July 3, 2023	<p>Seminar of Native and Exotic Plants</p> <p>Resource Person: Dr. Lizel Magtoto and Dr, Kenneth Laruan</p> <p>Participated by JHMC, UP Baguio, BSU, DENR-CAR, PENRO,CEPMO</p> 	
November 15, 2023	<p>Workshop on the Propagation of Native Plants</p> <p>Resource Person: Dr. Kenneth P. Laruan</p> <p>with JHMC, UP Baguio, BSU, DENR</p>	

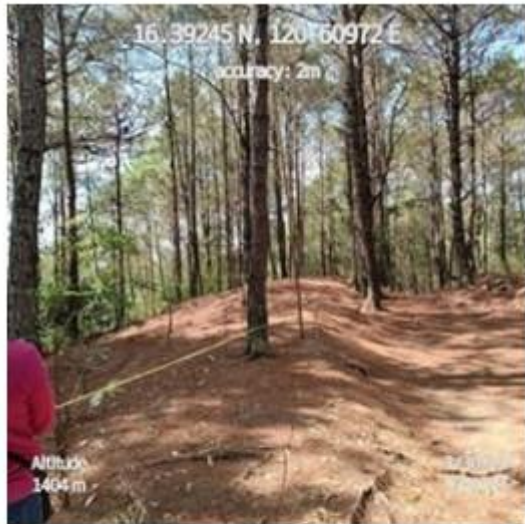
c. General Forest Care Activities

General forest care activities consisting of ornamental plants and tree seedlings propagation, thinning operations, removal of DENR-proclaimed invasive alien species, composting, assisted natural regeneration (ANR), lumber inventory and retrieval, and maintenance of established fire lines were conducted within portions of the JHSEZ and JHRA.

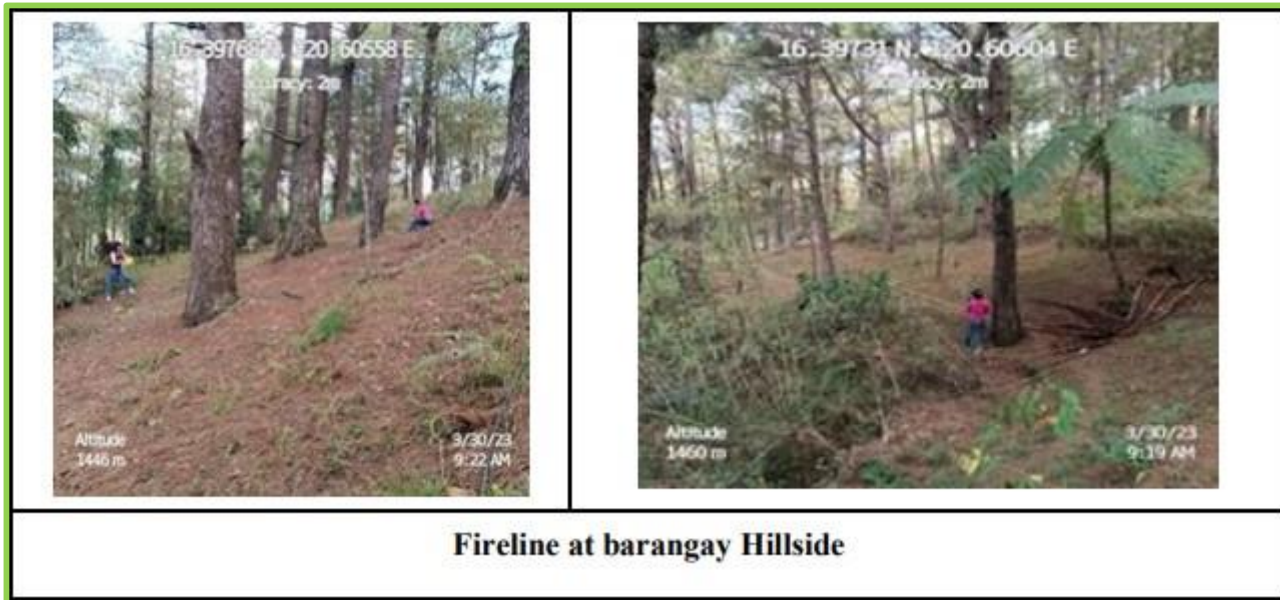
✓ *Fire Lines Maintenance*

As a regular activity and as part of the Fire Prevention Measures, fire lines were maintained within CJH Trails and the Reservation Area.

Fireline Maintenance at Kadaclan



Fireline at Lower Dagsian



✓ *Forest Fire Prevention Measures*

Following the fire incident at the Voice of America (VOA) on 15 February 2023, the JHMC Emergency Preparedness Response Team (EPRT) conducted its quarterly inspection on fire hydrants and standpipes installed in different areas of the CJH Trails on **15 March 2023**.



Aligned with the Fire Prevention Month, the JHMC EPRT checked and evaluated fire hydrants and standpipes at the CJH Trails on 15 March 2023.

The JHMC and the Camp John Hay Development Corporation (CJHDevCo) undertook on **15 June 2023** a joint inspection and evaluation of the existing fire hydrants and standpipes in order to improve, rehabilitate, and alleviate the forest protection and preservation initiatives of the Camp John Hay Forest.



The Joint Inspection and Evaluation of Fire Hydrants and Standpipes of the JHMC and CJHDevCo at the Camp John Hay Forest.

On **07 June 2023**, manual sirens were installed in two (2) strategic locations in Barangay Happy Hollow. The manual siren aims to improve the fire safety of the Camp’s forested areas by expediting response. The siren is hand-operated and is activated by just making a circular motion of its handle to produce a sound. The sound is heard within a 1.5-kilometre radius, which is enough to send warnings to nearby houses in the area.



d. Nursery Management and Landscape Maintenance

✓ *Production of Tree Seedlings*

The Nursery is home to around **13,879** forest tree seedlings of Benguet Pine and Coffee Arabica that were propagated, maintained and subsequently disposed in support of JHMC's tree planting and seedling donations to various partner agencies and institutions.

Production of Tree seedlings



✓ *Landscape Maintenance and Enhancement*

Additionally, ornamental plants were continually propagated and maintained to support landscapes maintenance and beautification of the Historical Core and JHMC Office premises and areas.





e. Waste and Resources Management

✓ *Solid Waste Management*

A clean-up drive within the JHSEZ on **30 June 2023** was held to encourage Tourists and Guests to practice responsible solid waste disposal. The activity was participated by 40 Volunteers from the JHMC personnel, OJTs and Service Providers which resulted to the collection of 71 kilograms of mixed wastes.



✓ *“Kalakalikahan” Event*

As a way of promoting solid waste management, JHMC launched its week-long recycling event **on 20-24 November 2023**. Employees were encouraged to bring the following: **(a) papers**, preferably flattened, dried and tied up; **(b) plastics**, preferably emptied, dried and cleaned; **(c) precious metals**, preferably wiped dry and emptied; and, **(4) glass bottles**, preferably emptied and dried.



✓ *Composting*

The composting facility near the Nursery is operational. The natural process of recycling organic matter such as dried pine needles, into a valuable fertilizer for the landscapes within JHMC premises and the Historical Core.



f. Water Quality Management



In its efforts to advocate for water sustainability in commemoration of World Water Day, JHMC conducted a clean-up drive on **22 March 2023**, participated by 38 Volunteers, including OJTs from Saint Louis University and the University of Baguio. The activity yielded to the collection of 35.9 kilograms of mixed wastes that were prevented to accumulate and enter the waterways and inland waters.

g. Air Quality Management

✓ *Ambient Air Quality Monitoring on Particulate Matter 10 (PM¹⁰)*

For the previous years, data show that the JHMC has maintained its **good air quality** through the years.

Sampling Month	Particulate Matter 10, ug/m3	Air Quality Index
January to March	16	Good
April to June	22	Good
July to September	10	Good
October to December	11	Good
Average	15	Good

**Target is <55 ug/m3 of PM10*

✓ ***Pollution Control and Related Compliances***

JHMC has its Pollution Control Officer (PCO) who inspects and investigates sources of pollution to protect the public and environment in compliance with the Philippine Clean Air Act of 1999 (RA 8749) and the Philippine Clean Water Act of 2004 (RA 9275).

Requisite PCO Self-Monitoring Reports and Project Description Reports were timely submitted to the Environment Management Bureau (EMB) – CAR while Pollution Sources needing Permits were duly applied for the year.

h. Raising Ecological Awareness

Eco-awareness talks and other related activities towards ecological responsibility is a way of encouraging Participants to actively take part in the conservation of natural resources.

Date	Participants	Event / Policy / Program Highlighted
March 22, 2023	JHMC Employee volunteers, Job Trainees, Fixed-term personnel	World Water Day Eco-Awareness Drive (Clean-up of John Hay Special Economic Zone Roadsides, canals and Waterways)
April 20, 2023	Baguio City National High School	Eco Awareness Talk, Clean Up Drive and Forest Trekking
June 30, 2023	JHMC Employees and Interns	Philippine Environment Month and World Environment Day Eco-Awareness Talk and Clean Up Drive Activity
September 23, 2023	JHMC Employees, Interns, North Com Security Personnel, and Mckleene Personnel	National Clean-Up Month and International Coastal Clean Up Eco-Awareness and Clean Up Drive Activity
September 29, 2023	Hillside National High School students and teachers	Proper Tree Care
October 12, 2023	Hillside National High School students and teachers	Forest management in general

i. Attendance to Related Fora for Sustainable Development and/or Environmentally-Friendly Value Chain

JHMC is in full participation to the following:

Date	Forum
09 February 2023	Climate Change Summit by the Office of the City Mayor
10 February 2023	DANUM Focus Group Discussion by Project Danum and University of the Cordilleras (UC)
13-14 April 2023	Greentech Summit 2023 “Build Back Better – Build Green” by the Office of the City Mayor

j. Environmental Management Bureau (EMB) Inspection and Audit

No negative findings and/or violations were noted during the surprise inspections conducted for the year from **April to September 2023**.

Date of Inspection	Remarks
April 14, 2023	Inspected Mile Hi Center to check Asbestos Roofing material used in the facility
May 17, 2023	Audited JHMC Permits and Compliance. Inspected generator sets, septic tanks and ongoing parking lot project
	Inspected Sheridan Drive project by Filinvest and audited compliance as per ECC Conditions
June 16, 2023	Inspected Air Pollution Source Installation (APSI) specifically Generator Set located in the Carport Area and Septic Tank of Bellhouse/Amphitheatre
September 27, 2023	Inspected the JHMC Wastewater Treatment Facility for the ECC Application



k. Deputy Environment and Natural Resource Officers (DENROs)

A number of DENROs consisting JHMC employees and security providers authorized by DENR to enforce environment and forest protection laws, rules and regulations within CJH were continually being capacitated in relation to their duties and responsibilities.

l. Environmental Impact Statement System

In accordance with P.D. 1586 “Establishing an Environmental Impact Statement System, Including Other Environmental Management Related Measures and for Other Purposes”, the requisite Certificate of Non-Coverage (CNC) was secured from the DENR-EMB on **26 June 2023**.

Further, the requisite Environmental Compliance Certificate (ECC) was secured on **17 October 2023** for the construction and operation of the Wastewater Treatment Facility.

m. Related Policy: Amendment of the Procedures and Guidelines in the Abatement of Illegal Structure, Illegal Construction and Encroachment Within the JHRA

This amended policy is effective **23 October 2023**.