



Tree planting of Deltans.



Tree planting by Concentrix.

A.8.4 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 and JHMC mandates towards sustaining/maintaining the forest watershed, an active participation of all JHMC employees with their children including interns and service providers (Security, GFC and Gardeners) had successfully planted **1,000 pots of Benguet pine seedlings** last **28 June 2024 at VOA** within Camp John Hay.



The PCEO and VPCOO joining the Participants of the Tree Planting Activity held in celebration of the 2024 Arbor Day on 21 June 2024 at the VOA, Camp John Hay, Baguio City.



✓ Validation and Assessment of Survival at the Planting Site

The validation of the planting site was conducted on **05 June 2024** at Camp 6, Tuba Benguet with the objectives of determining the survival percentage of the planted seedlings and ensuring that the chosen location is suitable and appropriate for tree planting.

Validation at Camp 6, Tuba Benguet

Project foresters checking and monitoring on survival of planted seedlings in Camp 6, Tuba Benguet



✓ Collaboration with Stakeholders for Better Forest Protection

John Hay Management Corporation (JHMC) collaborates with various government and non-government organizations, including academic institutions, for the planning and implementation of programs and activities related to water, forest, solid waste, and overall environmental management.

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

Date	Activity / Remarks
February 12, 2024	Tree Hugging activity with DENR
February 22, 2024	BLISTT Airshed
March 22, 2024	Gawad Taga Ilog Program Carayan Edition
April 8, 2024	Collaboration with the CEPMO Atty. Rhenan Diwas, regarding the status of water supply and sustainability measures in Camp John Hay.
April 16, 2024	Assessment of forest protection measures in Camp John Hay with BSU Forestry (Prof. Kenneth Laruan as Resource person).
April 27 - May 18	Philippine Science High School CAR Campus Clean Up Drive at Yellow Trail.
May 7, 2024	Bued Water Quality Management Area participation.
May 10, 2024	Baguio LGU 10 year Solid Waste Management Plan.
May 8, 2024	Ground Validation works with SLU research (AI based Tree Health Assessment).
May 22, 2024	Simulation and Study Presentation of SLU (AI based Tree Health Study) “Deep Learned Model Detection of Benguet Pine Health Status with Mapping of Benguet Pine Forest Degradation”.
May 29, 2024	Regional Ecology Center Meeting.
June 7, 2024	Memorandum of Agreement (MoA) signing for the Surface Run-off Study.
June 11, 2024	BLISTT (Airshed) Meeting.

June 14, 2024	REC Meeting.
June 20-21, 2024	Environmental Summit.
June 26, 2024	Bird Assessment.



Tree Hugging with DENR



Gawad Taga Ilog Program (CARarayan)



Collaboration with the CEPMO, Atty Rhenan Diwas, regarding the status of water supply and sustainability measures in Camp John Hay



Assessing the forest protection, nursery and biodiversity management measures of Camp John Hay, with For. Kenneth Laruan as Resource Person

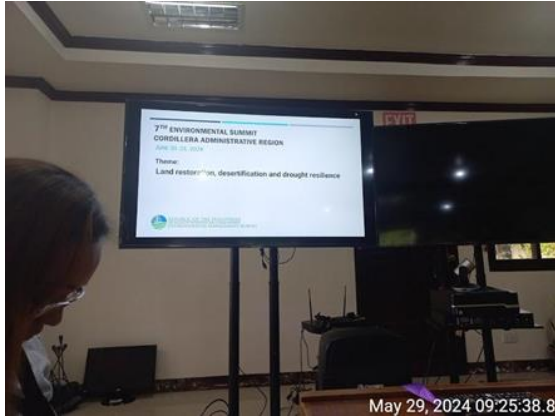


With Philippine Science High School Clean



Saint Louis University SAMCIS "Deep

and and Waste Distribution Assessments



Regional Ecology Center

Learned Model Detection of Benguet Pine Health Status with Mapping of Benguet Pine Forest Degradation



MOA with DENR ERDB and DENR CAR for Surface Runoff Assessments



BLISTT Airshed Collaboration and Cooperation



Bird Assessments as part on ongoing research and bioassessments with UPB, DENR, DMMMSU and BSU



Environmental Summit

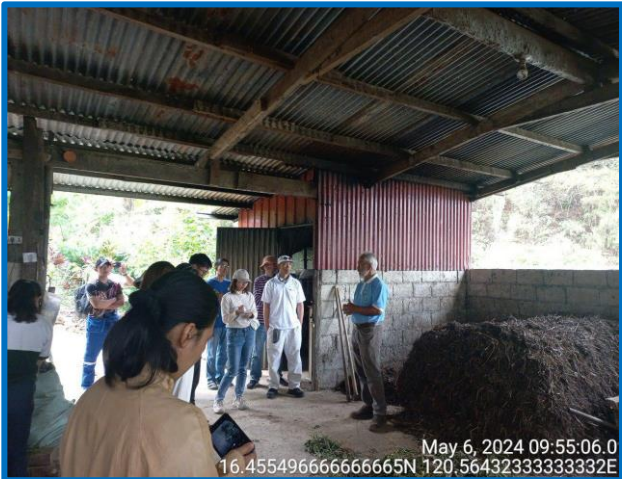



Participative collaboration on LGU-Baguio's Solid Waste Mgmt. Plan

b. Natural Resource Management

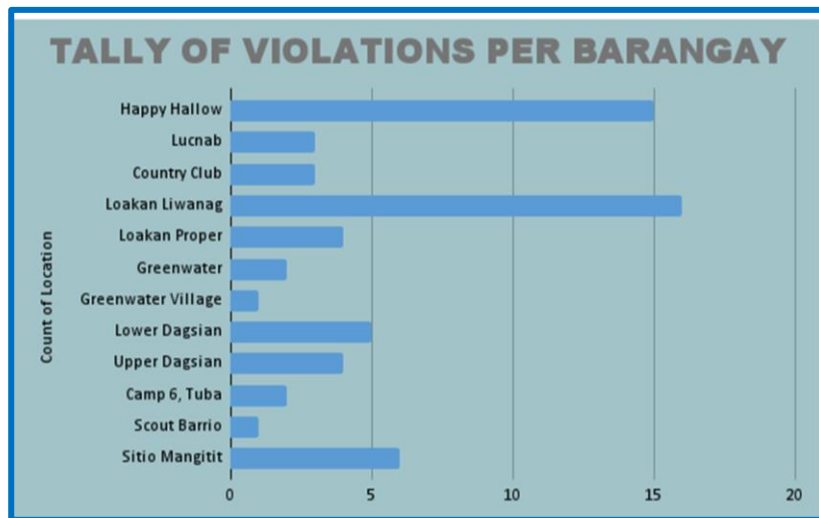
✓ Capacity-Building: Forest Stewardship and Natural Resource Management (NRM)

Through these efforts, JHMC aims to promote the sustainable use of natural resources, foster environmental awareness, and empower its personnel to effectively address emerging environmental challenges.

Date	NRM Activity	Remarks
May 6, 2024	Lecture training on compost making and mokusaku (wood vinegar) production at the Lily of the Valley Organic Farm.	 <p>May 6, 2024 09:55:06.0 16.455496666666665N 120.56432333333332E</p>
July 23, 2024	Capacity Building for Deputy Environment and Natural Resources Officers (DENRO)	

✓ **Other Forest Protection-related Tasks and Accomplishments**

Various violations on forest protection and regulations were reported. According to the violation committed, these were endorsed to the DENR-CAR or CENRO Baguio or CEPMO for proper action. The same also formed part of the DENRO Reports being submitted to the CENRO- Baguio City.



JHRA	TALLY
HaPPY HaLLow	15
LUCNaB	3
COUNTRY CLUB VILLAGE	3
LOaKaN LiwaNaG	16
GREENwaTER	3
LOWER DaGSlaN	5
UPPER DaGSlaN	4
TUBa, CaMP 6	2
HILLSIDE	0
STa. ESCOLaSTICa	0
SCOUT BaRRIO	1
LOaKaN PROPER	4
LOaKaN APUGaN	0
TOTAL	59

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, maintenance of established firelines, and Greenbelt establishment** 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 Maintenance at VOA



Fireline at Lower Dagsian



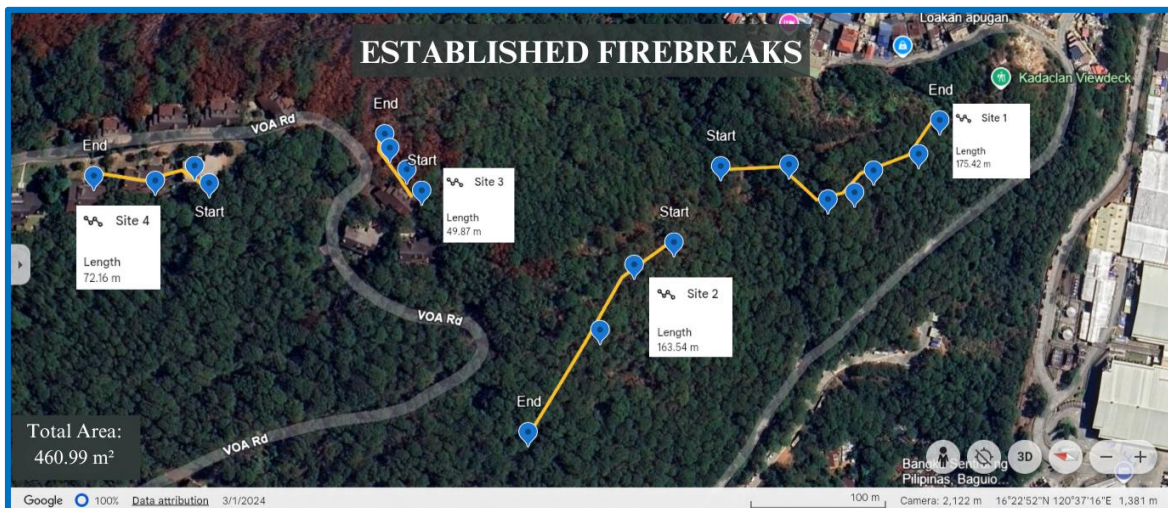
Fireline at Scout Barrio



Fireline at Barangay Hillside



Established Greenbelts/Firebreaks



✓ *Suppression of Forest Fires*

Forest fires can be prevented but may happen anytime especially during dry season.



d. Nursery Management and Propagation

✓ *Production of Tree Seedlings*

For the year 2024, a total of **13, 234** pots of ornamental plants were propagated and maintained to support landscape maintenance and beautification efforts within JHMC's areas of responsibility. Furthermore, the nursery housed approximately **7,320** forest tree seedlings of Benguet Pine and Coffee Arabica, which were propagated, maintained, and subsequently distributed in support of JHMC's tree planting program and as seedling donations to various partner agencies and institutions, aiding their tree planting initiatives.

Production of Tree seedlings



✓ *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.

Composting as part of waste and resources management



Tree Planting Preparation



✓ *Landscape Maintenance and Enhancement*

The landscaping in the historical core, JHMC office grounds, CCA gardens, and Loakan Cemetery was regularly maintained and improved through a variety of activities, including grass cutting, weeding, daily watering, weekly pine needle raking, trimming and shaping plants, and soil cultivation and enhancement.



e. Waste and Resources Management

✓ *Solid Waste Management*

On **03-04 July 2024**, benchmarking visit was conducted at Holcim Philippines, Inc. for alternative waste disposal facilities.



Benchmarking at Holcim on 03-04 July 2024.



Ocular Inspection with Maeko



Ocular Inspection with Greentech and Benchmarking of Black Soldier Fly

f. Water Quality Management

JHMC Wastewater Treatment Plant

The Design Consultancy Services of the JHMC WTP was awarded to Anthroserve Incorporated. On August 18, 2023, the project blueprints were handed over to JHMC and commenced the introductory meeting for the construction of the JHMC Sewage Treatment Plant.

On **September 24, 2024**, the PAMB Clearance for the WTP and the tree cutting of 10 trees was received. On **October 22, 2024**, tree cutting operations were conducted.



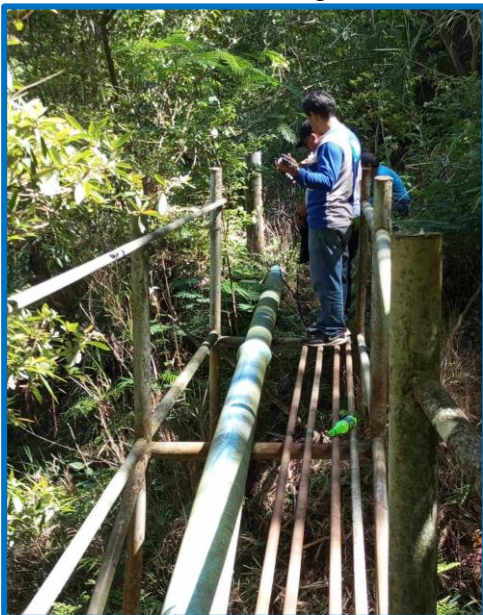
Water Survey with BCDA and Baguio Water District (BWD)

Recon collaborates with BCDA to plan and secure water facilities, including water sources and treatment systems, while coordinating with BWD and BCDA for water sampling and flow testing.

Recon works



Flow Testing



Water sampling



Sustainability Assessment of Camp John Hay's Mini Hydropower Plant

Site visit and inspection of the CJH Mini Hydro Power Plant at the Municipality of Tuba, Benguet with PCEO Atty. Marlo Quadra.



Surface Run-off Water Harvesting Technology for Water Supply in Camp John Hay Catchment Areas



Regional Water Quality Management Summit

JHMC's exceptional commitment to water quality management has been acknowledged during the Regional Water Quality Management conducted on **05 December 2024**.



g. Air Quality Management

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

All monthly ambient air monitoring conducted from January to May 2024, were in the **GOOD Air Quality Index**. The results were also submitted to the EMB-CAR. The summary of the conducted air sampling and monitoring are tabulated below:

Sampling Month	Particulate Matter 10, ug/m3	Air Quality Index
January	14	Good
February	25	Good
March	21	Good
April	34	Good

May	7	Good
December	3	Good
Average	17	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, Project Description Reports and pollution sources needing permits were applied and submitted for the year 2024 to the EMB-CAR.

- 2024 1st Quarter - 15 April 2024
- 2024 2nd Quarter - 12 July 2024
- 2024 3rd Quarter - 14 October 2024
- 2024 4th Quarter - January 10, 2025

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. This is done through eco-awareness talks, and other awareness building sessions with JHMC employees relative to its ISO 14001:2015 / EMS.

Date	Participants	Event / Policy / Program Highlighted
February 22, 2024	JHMC Interns	EMS Orientation
April 03, 2024	JHMC Newly Hired Employees and Interns	EMS Orientation
April 06, 2024	Girls Running on Trails, Baguio Ploggers, JHMC Volunteer Employees	Plogging Activity
April 18, 2024	JHMC Volunteer Employees and Interns	Clean Up Drive at Camp 3 in celebration of Bued River Day
June 30, 2024	JHMC Volunteer Employees	Tree Cart Parade in celebration of Saleng Festival

September 27, 2024	JHMC Employees and Interns	Clean Up Drive at JHRA in celebration of National Clean Up Month and International Coastal Clean Up
September 28, 2024	JHSEZ Locators	Clean Up Drive at JHSEZ in celebration of National Clean Up Month and International Coastal Clean Up
October 17, 2024	JHMC Newly Hired Employees and Interns	EMS Orientation
November 18 - 22, 2024	JHMC Employees	KALAKALikasan Event
December 06 and 19, 2024	JHMC Employees and JHSEZ Locators	Gawad Kaisa ng Kalikasan

Plogging Activity



Clean Up Drive at Camp 3



Tree Cart Parade



Clean Up Drive of JHMC Employees



Clean Up Drive with JHSEZ Locators



EMS Orientation



KALAKALikasan Event



Gawad Kaisa ng Kalikasan



i. 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
January 30, 2024	Onsite Calibration of the Ambient Air Machine.
July 24, 2024	Onsite Compliance Monitoring and Audit of Forest Lodge, The Manor and Le Monet Hotel.
August 01, 2024	Inspected the compliance of Camp John Hay Development Corporation (CJHDevCo), Camp John Hay Golf Club, and CAP-John Hay Trade and Cultural Center.
August 08, 2024	Inspected the compliance of John Hay Management Corporation (JHMC) and Hillsford Property Corporation.
August 28, 2024	Inspected the Air Pollution Source Installations (APSI) of SMART Cellsite
September 27, 2024	Inspected Mile Hi Center to check Asbestos Roofing material used in the facility and Area 1 warehouse for the remaining Asbestos that was dismantled at the Cottage 665 - 668.

October 17, 2024	Ocular Inspection at Yellow Trail for the BLISTT Airshed Eco Walk.
November 27, 2024	BLISTT Airshed Eco Walk for the Cleaner Air in celebration of Clean Air Month, Anti-VAWC Month, Climate Change, and Environmental Awareness Month

j. 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.

k. Environmental Impact Statement System

Following the recent en banc decision by the Supreme Court favoring BCDA in recovering 247 hectares of the JHSEZ, previously leased to the Camp John Hay Development Corporation (CJHDevCo), it is essential to initiate the immediate transfer of the Environmental Compliance Certificate (ECC) from CJHDevCo to the BCDA. The JHMC will serve as the implementing arm and administrator for the Camp John Hay estate. Several meetings were conducted with EMB-CAR in preparation for the ECC of Camp John Hay.

