Metric 15.4

AY 2024 - 2025

Saint Louis University

Supporting Land Ecosystems Through Action

15 LIFE ON LAND

Indicator 15.4.1

AY 2024 - 2025

Saint Louis University

Water discharge guidelines and standards

15 LIFE ON LAND

SLU's Commitment to Clean Water, Safe Land, and Sustainable Ecosystems

Saint Louis University (SLU) maintains strict water quality standards and discharge control measures to ensure that all effluent released from university operations is safe for ecosystems, wildlife, and human health. Guided by its Institutional Risk Register and Annual Operational Plan, SLU integrates pollution prevention, wastewater risk management, and regulatory compliance into its campus-wide environmental governance.

The University operates multiple DENR-permitted Sewage Treatment Plants (STPs) that apply advanced treatment processes. The University holds an approved Discharge Permit issued by the Department of Environment and Natural Resources – Environmental Management Bureau (DENR-EMB), in compliance with Republic Act 9275 (Philippine Clean Water Act of 2004). This permit governs the safe and regulated discharge of treated wastewater from the campus.

To uphold water quality, SLU submits Quarterly Self-Monitoring Reports (SMRs) validated by DENR-accredited laboratories. These reports consistently confirm that key effluent parameters remain well within allowable limits, ensuring that discharges pose no harm to receiving environments.

Republic of the Philippines
Department of Environmental and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
Cordillera Administrative Region (CAR)
Cordillera Administrative Region DENR Compound, Gibraltar Baguio City
Tel No: (074) 446-64-40/ 6652904/ 6652905

Date: Dec 03, 2024

Permit No.: DP-CAR-24-12174
Renewal

WASTEWATER DISCHARGE PERMIT

Pursuant to Section 14, Article 2, of the RA 9275 otherwise known as the "Philippine Clean Water Act of 2004", this permit is hereby granted to **Saint Louis University - Sacred Heart Medical Center** with office address at Assumption Road Extension, Kagitingan, Baguio City, Benguet for its establishment:

SAINT LOUIS UNIVERSITY - SACRED HEART MEDICAL CENTER	ASSUMPTION ROAD EXTENSION KAGITINGAN BAGUIO CITY BENGUET
TIN No. 000-906-727-000	

CONDITIONS:

1. The Permittee shall be allowed to discharge effluent from the **one (1) unit SEWAGE TREATMENT PLANT (STP)** - Advanced Oxidation System using combined Filtration and Ozonation into the Balili River not to exceed **two hundred (200) cubic meters per day** during the validity of this Permit and that it shall comply with the following standards for Class "B" Freshwater:

Parameter	Standards	Parameter	Standards
Color	100 TCU	Temperature	3°C Change
pH (Range)	6.0 - 9.0	Biochemical Oxygen Demand (BOD)	30 mg/L
Total Suspended Solids (TSS)	85 mg/L	Fecal Coliform	200 MPN/100 mL
Ammonia as NH_3-N	3 mg/L	Nitrate as NO_3-N	14 mg/L
Phosphate as Phosphorus (Total, Reactive)	1.5 mg/L	Oil and Grease	5 mg/L
Surfactants (MBAS)	3 mg/L	---	---

** Reference for effluent parameters: DAO 2016-08 and DAO 2021-19; PSIC Code - 86, 87.*

2. Institute measures on the operation of your STP so as to have effluent conforming with the prescribed standards.
3. Submit Self-Monitoring Report (SMR) based on the following schedule:

Quarter	Coverage	Submission	Quarter	Coverage	Submission
First	Jan - Mar	1-15 Apr	Third	Jul - Sep	1-15 Oct
Second	Apr - Jun	1-15 Jul	Fourth	Oct - Dec	1-15 Jan

4. Include effluent analysis of the above parameters conducted by Third Party Laboratory duly recognized by EMB, in every submission of the SMRs.
5. Observe proper disposal of dried/accumulated sludge. Include the proof of compliance in the SMR.
6. Measure and record every effluent discharge from the STP. Include in every submission of the SMRs.
7. In case of the resignation or termination of the services of the Pollution Control Officer (PCO), the Managing Head shall appoint/designate a new PCO. He/She shall inform, in writing, the concerned EMB Regional Office within fifteen (15) days and seek accreditation for the new PCO within thirty (30) calendar days from the date of the resignation or termination. Meantime, the Managing Head shall

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Protect the environment ... Protect life...

echem ENVIRONMENTAL TESTING LABORATORY CORPORATION
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Satellite Office: G/F ASCORP Bldg., Mc Arthur Highway, Dolores, City of San Fernando, Pampanga
Sales: 0942-316-2538 • 0945-798-6962 | (045) 435-2795 Email: echemenvironmental@gmail.com
Technical: 0917-507-8753 • 0917-164-2944
DOH Accreditation No.03-010-2325-LW-2 Valid until December 31, 2025
DENR C.R.No. 074/2023 Valid until June 24, 2026

TEST REPORT

Client: Saint Louis University, Inc.
Address: A. Bonifacio St., Baguio City
Contact Person: Engr. Jaymarie Padro
COC Number: 2025-F0381

Test Report No.: TR-25G-094
Date and Time Received: 25 Jun 2025 @03:15PM
Sampled by: ECHEM
Report Date: 07 Jul 2025

Sample ID: S25-F25-009W
Sample Description: Effluent
Sample Matrix: Wastewater
Sampling Date: 25 Jun 2025
Sampling Time: 09:25 AM
Sampling Location: SLU Main Campus STP, A. Bonifacio St., Baguio City

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Fecal Coliform	<1.8	MPN/100 mL	200	Multiple Tube Fermentation Technique	25 Jun 2025 @04:00PM	JFS
Ammonia as NH_3-N	0.02	mg/L	3.0	Phenate	04 Jul 2025	KSL
Biochemical Oxygen Demand (BOD_5)	<2	mg/L	30	5-Day BOD Test	25 Jun-30 Jun 2025	SSL
Nitrate as NO_3-N	1.9	mg/L	14	Colorimetric, Brucine	25 Jun 2025	RRM
Oil and Grease	<1	mg/L	5	Liquid-Liquid, Partition Gravimetric	02 Jul 2025	RRM
Phosphate	0.05	mg/L	1.5	Stannous Chloride	26 Jun 2025	CSF
Surfactants (MBAS)	<0.02	mg/L	3.0	Anionic Surfactants as MBAS	26 Jun 2025	KSL
Total Suspended Solids (TSS)	<2	mg/L	85	Gravimetric, Dried at 103-105°C	26 Jun 2025	CSF

15 LIFE ON LAND

Additionally, through the “Water is Life” program, SLU performs monthly bacteriological testing by the Health Services Office of the City, and semi-annual chemical and physical analyses by accredited laboratories to ensure water safety and quality across the campuses.

These programs are overseen by accredited Pollution Control Officers (PCOs) under the Campus Planning, Maintenance, and Security Department (CPMSD), with designated PCOs assigned to each campus. The PCOs ensure proper implementation, regular monitoring, and compliance with environmental regulations. Together, these efforts reflect SLU’s commitment to sustainable water management and environmental protection, with policies and programs that are implemented and monitored regularly.

Republic of the Philippines
City Government of Baguio
HEALTH SERVICES OFFICE
Public Health Laboratory
Sanitary Bacteriology

BACTERIOLOGICAL ANALYSIS OF WATER TEST REPORT

Establishment:* (Requesting Party/ Client): SAINT LOUIS UNIVERSITY - MAIN CAMPUS
Sample Code: W25-1716
Control Number: 190825-R09
Owner:* Saint Louis University, Inc.
Submitted by:* Nollie Aldwin Soriano
Sample Collected by:* Nollie Aldwin Soriano
Classification: Water Refilling Station
Source of Water Supply:* Deep Well
Address/ Location of (Sampling Point):* Diego Silang Building, SLU Main Campus, A. Bonifacio Street, Baguio city (Water Purifier Faucet)
Date/Time Received: August 19, 2025 @ 10:00AM
Date/Time Analysis Started: August 19, 2025 @ 10:09AM
Date Analysis Completed: August 22, 2025AM
Date Reported: August 22, 2025AM
Contact Number: 09562547779
Sample Type: PROCESSED - PURIFIER
Page: 1 of 1

Sample Description	Results of Analyses			
Date & Time Collected: August 19, 2025 @ 8:24AM* Received a PURIFIED water sample, clear without particles placed in a 1 Liter GREEN cap PET bottle, unsealed, labelled SLU - MAIN CAMPUS.	Bacteriological Tests	Total Coliforms** (MPN/100mL)	Escherichia coli ** (MPN/100mL)	Heterotrophic Plate Count *** (est. CFU/mL)
	Standard Values (PNSDW 2017)	ABSENT or <1 MPN/100mL	ABSENT or <1 MPN/100mL	<500 CFU/mL
	Sample Code: W25-1716	ABSENT or <1 MPN/100mL	ABSENT or <1 MPN/100mL	<1 CFU/mL

Philippine National Standards for Drinking Water (PNSDW) 2017; Standard Methods for the Examination of Water and Wastewater (SMEWW), 24th edition; Most Probable Number (MPN), estimated Colony Forming Unit (est. CFU), Polyethylene Terephthalate (PET); * Marked information provided by (the)requesting party.

METHODOLOGY:
Enzyme Substrate Test Readycult Coliforms 100** Presence /Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Finished Waters, Environmental Protection Agency (EPA) version 1.1, January 2007; SMEWW 24th edition; 9221 Multiple Tube Fermentation Technique (MTFT) ; 9221B.3 Presumptive Phase (modified); 9215 Heterotrophic Plate Count (HPC); 9215B Pour Plate Method (modified)*** (48 hours @ 35C; Nutrient Agar); Merck Microbiology Manual 12th edition.

REMARKS:
Water sample tested Absence of Coliforms. The heterotrophic plate count is within the standard limit. Bacteriologically COMPLIANT (PASSED) with the Philippine National Standards for Drinking Water 2017.

Results given in this report are those obtained at the time of test and refer only to the particular water sample submitted. The laboratory cannot ascertain and guarantee if the tested water is representative of the water from the given address and point of sampling. This report shall not be reproduced in part, except in full without the written approval of the HSO Laboratory.

WILSON B. DAYAO, RMT
Medical Technologist I

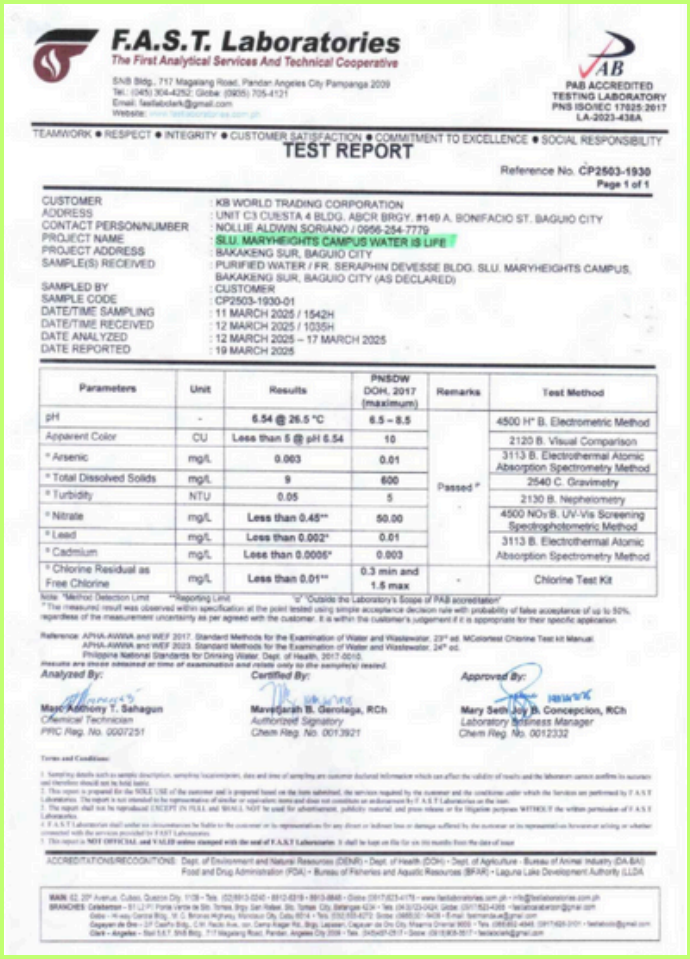
VIRGINIA V. DE JOYA, MD, MPH, FPSP
PRC License No. 26131
Pathologist

HSO

Date signed: AUG 22 2025

Address: T. Alonzo St., Baguio city
Telephone No. (074)442-6018

Bacteriological Test of Purified Water



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TEAMWORK • RESPECT • INTEGRITY • CUSTOMER SATISFACTION • COMMITMENT TO EXCELLENCE • SOCIAL RESPONSIBILITY

TEST REPORT

Reference No. CP2503-1930
Page 1 of 1

CUSTOMER : KB WORLD TRADING CORPORATION
ADDRESS : UNIT C3 CUESTA 4 BLDG. ABCR BRGY. #149 A. BONIFACIO ST. BAGUIO CITY
CONTACT PERSON/NUMBER : NOLLIE ALDWIN SORIANO / 0956-254-7779
PROJECT NAME : SLU. MARYHEIGHTS CAMPUS WATER IS LIFE
PROJECT ADDRESS : BAKAKENG SUR, BAGUIO CITY
SAMPLE(S) RECEIVED : PURIFIED WATER / FR. SERAPHIN DEVESSE BLDG. SLU. MARYHEIGHTS CAMPUS, BAKAKENG SUR, BAGUIO CITY (AS DECLARED)
SAMPLED BY : CUSTOMER
SAMPLE CODE : CP2503-1930-01
DATE/TIME SAMPLING : 11 MARCH 2025 / 1542H
DATE/TIME RECEIVED : 12 MARCH 2025 / 1035H
DATE ANALYZED : 12 MARCH 2025 – 17 MARCH 2025
DATE REPORTED : 19 MARCH 2025

Parameters	Unit	Results	PNSDW DOH, 2017 (maximum)	Remarks	Test Method
pH	-	6.54 @ 26.5 °C	6.5 – 8.5	Passed *	4500 H+ B. Electrometric Method
Apparent Color	CU	Less than 5 @ pH 6.54	10		2120 B. Visual Comparison
* Arsenic	mg/L	0.003	0.01		3113 B. Electrothermal Atomic Absorption Spectrometry Method
* Total Dissolved Solids	mg/L	9	600		2540 C. Gravimetry
* Turbidity	NTU	0.05	5		2130 B. Nephelometry
* Nitrate	mg/L	Less than 0.45**	50.00		4500 NO3 B. UV-Vis Screening Spectrophotometric Method
* Lead	mg/L	Less than 0.002*	0.01		3113 B. Electrothermal Atomic Absorption Spectrometry Method
* Cadmium	mg/L	Less than 0.0005*	0.003		
* Chlorine Residual as Free Chlorine	mg/L	Less than 0.01**	0.3 min and 1.5 max	-	Chlorine Test Kit

Note: *Method Detection Limit **Reporting Limit "Outside the Laboratory's Scope of PAB accreditation"
* The measured result was observed within specification at the point tested using simple acceptance decision rule with probability of false acceptance of up to 50%, regardless of the measurement uncertainty as per agreed with the customer. It is within the customer's judgement if it is appropriate for their specific application.

Reference: APHA-AWWA and WEF 2017. Standard Methods for the Examination of Water and Wastewater. 23rd ed. 9Colorless Chlorine Test kit Manual; APHA-AWWA and WEF 2023. Standard Methods for the Examination of Water and Wastewater. 24th ed.; Philippine National Standards for Drinking Water. Dept. of Health. 2017.0010.
Results are always obtained at time of examination and relate only to the sample(s) tested.

Analyzed By: Marc Anthony T. Sahagun, Chemical Technician, PRC Reg. No. 0007251
Certified By: Mavegarah B. Gerolaga, RCh, Authorized Signatory, Chem Reg. No. 0013921
Approved By: Mary Seth Joy B. Concepcion, RCh, Laboratory Business Manager, Chem Reg. No. 0012332

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ACCREDITATIONS/RECOGNITIONS: Dept. of Environment and Natural Resources (DENR) - Dept. of Health (DOH) - Dept. of Agriculture - Bureau of Animal Industry (DA-BAI); Food and Drug Administration (FDA) - Bureau of Fisheries and Aquatic Resources (BFAR) - Laguna Lake Development Authority (LLDA)

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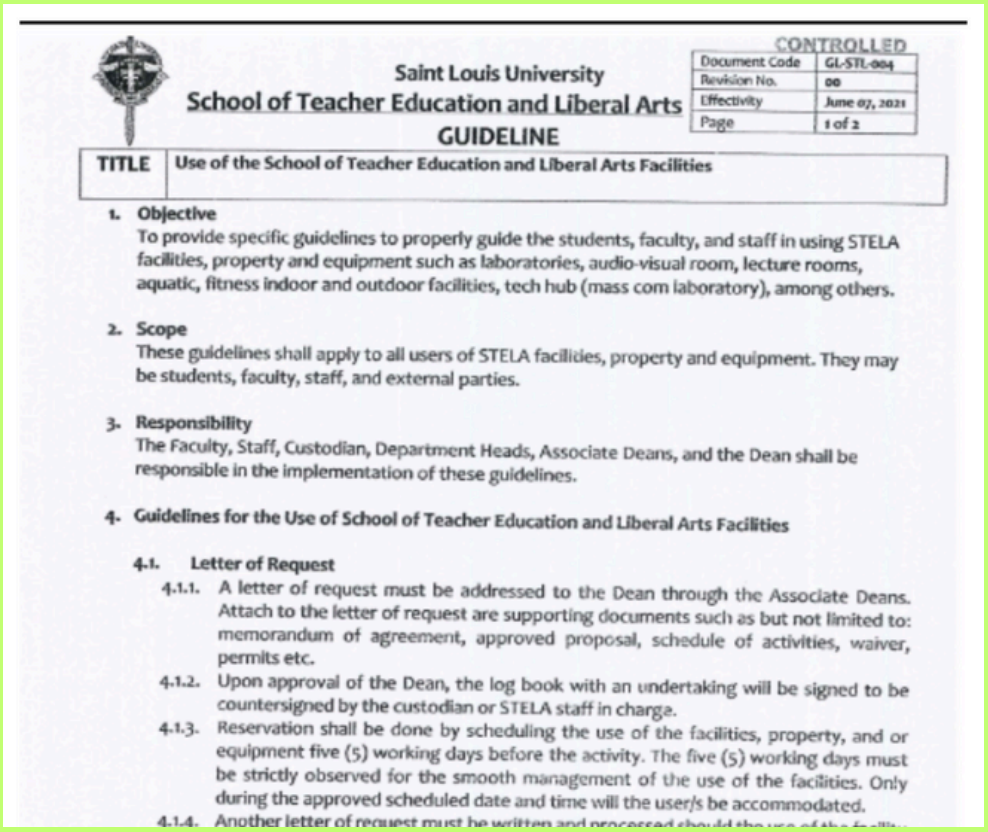
Chemical and Physical Analysis of Purified Water

15 LIFE ON LAND

SLU also implements comprehensive guidelines for aquatic facilities, ensuring that the University's state-of-the-art swimming pools and other water-related amenities are managed in an environmentally responsible way. These guidelines include best practices for pool water treatment, chemical dosing, and filtration, which reduce the frequency of draining and refilling while maintaining strict water quality standards. The Olympic-size swimming pool, for instance, saves an estimated 1.57 million liters annually through its shade structure, improved chemical management, and integration with the STPs. By linking recreational and athletic facilities with water recycling systems, SLU minimizes pollution risks while extending the lifecycle of water resources.



CONTROLLED

Saint Louis University
School of Teacher Education and Liberal Arts
GUIDELINE

Document Code	GL-STL-004
Revision No.	00
Effectivity	June 07, 2021
Page	1 of 2

TITLE Use of the School of Teacher Education and Liberal Arts Facilities

1. **Objective**
   To provide specific guidelines to properly guide the students, faculty, and staff in using STELA facilities, property and equipment such as laboratories, audio-visual room, lecture rooms, aquatic, fitness indoor and outdoor facilities, tech hub (mass com laboratory), among others.

2. **Scope**
   These guidelines shall apply to all users of STELA facilities, property and equipment. They may be students, faculty, staff, and external parties.

3. **Responsibility**
   The Faculty, Staff, Custodian, Department Heads, Associate Deans, and the Dean shall be responsible in the implementation of these guidelines.

4. **Guidelines for the Use of School of Teacher Education and Liberal Arts Facilities**

   4.1. **Letter of Request**

   4.1.1. A letter of request must be addressed to the Dean through the Associate Deans. Attach to the letter of request are supporting documents such as but not limited to: memorandum of agreement, approved proposal, schedule of activities, waiver, permits etc.

   4.1.2. Upon approval of the Dean, the log book with an undertaking will be signed to be countersigned by the custodian or STELA staff in charge.

   4.1.3. Reservation shall be done by scheduling the use of the facilities, property, and or equipment five (5) working days before the activity. The five (5) working days must be strictly observed for the smooth management of the use of the facilities. Only during the approved scheduled date and time will the user/s be accommodated.

   4.1.4. Another letter of request must be written and processed should the use of the facility

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