



## ENVIRONMENTAL MANAGEMENT BUREAU REGION 8

## COMPLIANCE INSPECTION FOR WATER QUALITY MANAGEMENT



## ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION-WATER AIR QUALITY MONITORING SECTION

Report Control Number: WATER-10-31  
 Date of Inspection: October 7, 2020  
 Mission Order No.: EMBR8-2020-005424

1. GENERAL INFORMATION		
Name of Establishment: <b>PEPSI-COLA PRODUCTS PHILIPPINES, INC.</b>		
Address: <b>BARANGAY STO. NIÑO TANAUAN, LEYTE</b>		Geo Coordinates: <b>Latitude: 11.102074° Longitude: 125.019708°</b>
Nature of Business: <b>MANUFACTURING OF BEVERAGES</b>		
PSIC Code: <b>11</b>	Product: <b>SOFT DRINKS</b>	Year Established: <b>1961</b>
Operating hours/day: <b>18</b>	Operating days/week: <b>7</b>	Operating days/year:

Product Lines	Production Rate as Declared in the ECC (unit/day)	Actual Production Rate (unit/day)
Soft drinks	<50,000 MT (annual production rate)	on-going bottling of 1L Pepsi during the time of monitoring
Name of Managing Head:	<b>Amiel D. Obiena</b>	
Name of PCO:	<b>Engr. Erwin Darole</b>	
PCO Accreditation No.:	<b>2019-RVIII-0043</b>	Date of Effectivity: <b>March 18, 2019 - March 18, 2022</b>
Phone/Fax:	<b>(053) 527-3836 loc 2836</b>	Email: <b>edwin.darole@pcppi.com.ph</b>

2. PURPOSE OF INSPECTION		
<input type="checkbox"/> Verify accuracy of information submitted by the establishment pertaining to new permit applications, renewals, or modification		
<input type="checkbox"/> New Renewal <input type="checkbox"/> PMPIN Application <input type="checkbox"/> Hazardous Waste ID Registration <input type="checkbox"/> Hazardous Waste Transporter Registration <input type="checkbox"/> Hazardous waste TSD Registration <input type="checkbox"/> Permit to Operate Air Pollution Control Installation <input type="checkbox"/> Discharge Permit <input type="checkbox"/> Others _____	New	Renewal
<input type="checkbox"/> Determine compliance status with the environmental regulations, permit conditions, and other requirements <input type="checkbox"/> Investigate community complaints <input type="checkbox"/> Check status of voluntary commitment		
<input type="checkbox"/> Industrial Ecowatch <input type="checkbox"/> Philippine Environmental Partnership Program (PEPP) <input type="checkbox"/> Pollution Adjudication Board (PAB) <input type="checkbox"/> Others _____	<input type="checkbox"/> Others _____	

Name of Contact Person	<b>Engr. Erwin Darole</b>
Position / Designation	<b>PCO</b>

### 3. COMPLIANCE STATUS

#### 3.1 DENR Permits/Licenses/Clearance

Environmental Law	Permits		Date of Issue	Expiry Date
PD 1586	ECC1	ECC-RO8-1302-0014	03/08/2013	
	ECC2			
RA 6969	DENR Registry ID	GR-R8-37-00022		9/28/2015
	PCL Compliance Certificate			
	CCO Registry	CCO-PCB-R8-PEP-19		10/30/2015
	Permit to Transport			
RA 8749	POA No.	POA-2019-C-0837-0096		3/22/2019      3/22/2024
RA 9003	ECC for Sanitary Landfill			
RA 9275	DP No.	DP-RO8-20-03266		08/03/2020      08/03/2021

### 4. Water Supply and Wastewater Generation

#### A. Water Sources

Sources of Water Supply	Daily (m³/day)	Annual (m³/day)	Specify if Others
Surface water (river, lakes, etc.)			
Groundwater			
Water utilities	898.21	291,021	based on 2019 data
Others (specify)			

#### B. Wastewater Sources

Water Use / Sources of Wastewater	Consumed (m³/day)	Generated (m³/day)	Specify if Others
Process Water	215	215	
Domestic Water	105	105	
Cooling Water	5	5	
Maintenance	10	10	
Storm drain			
Others (specify)			
Recycled/Re-use	20	20	
Product component	438	438	

#### C. Quality of Abstracted Water

Sources of Water Supply	BOD/ COD	TSS	AVFP	Heavy Metals	Specify if Others
<i>Sampling not conducted</i>					

### 5. Information on Wastewater Pollution

A. Does the Establishment have a Wastewater Treatment Plant?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. What type of WWTP?	<input checked="" type="checkbox"/> Physical <input checked="" type="checkbox"/> Biological <input checked="" type="checkbox"/> Chemical <input type="checkbox"/> Others
C. WWTP Detail	
1. Date Installed	1997
2. Design Capacity	Data not available
3. Cost of WWTP	Data not available
4. Annual Maintenance Cost (Php/year)	Data not available
5. Location of Discharge Point(s)	Receiving Water Body
outfall located across National Highway	Embakkadero River
	<input checked="" type="checkbox"/> V-weir <input type="checkbox"/> Flow Meter
6. Flow Metering Device Use	Other (specify) _____

7. Flow Rate		Influent	Effluent	Others (specify)
		25.2 m <sup>3</sup> /day		
<b>A. Components of WWTP</b>				
<b>Primary</b>	<b>Biological</b>		<b>Chemical</b>	<b>Others</b>
<input checked="" type="checkbox"/> Screening <input type="checkbox"/> Primary Treatment <input type="checkbox"/> Grit Removal <input checked="" type="checkbox"/> Oil/Water Separator <input checked="" type="checkbox"/> Equalization Tank <input type="checkbox"/> Others (specify) _____	<input checked="" type="checkbox"/> Activated Sludge <input checked="" type="checkbox"/> Anaerobic Digestion <input type="checkbox"/> Trickling Filter <input type="checkbox"/> Oxidation/Stabilization Pond <input type="checkbox"/> Sequencing Batch Reactor <input type="checkbox"/> Others (specify) _____		<input checked="" type="checkbox"/> pH Adjustment <input type="checkbox"/> Disinfection <input type="checkbox"/> Oxidation/Reduction <input type="checkbox"/> Flocculation/ Coagulation <input type="checkbox"/> Others (specify) _____	
<b>B. Condition of the WWTP</b>				
1. What is the general condition of the WWTP during sampling?		<input type="checkbox"/> Properly maintained <input type="checkbox"/> Inadequately maintained <input type="checkbox"/> Poor maintenance <input type="checkbox"/> Others		
2. Is the WWTP under construction or undergoing rehabilitation?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. If the answer is No. 2 is YES, has this been reported to EMB/LLDA?		N/A		
4. Which System or units are under construction or being modified?				
5. Estimated date of completion				
6. Treatment units utilized to treat wastewater				

<b>Water Quality Field Date (sample collected on October 7, 2020)</b>						
<b>Sampling Point No. 1</b>						
<b>Sampling Station</b>	<b>PCPPI Outfall</b>		<b>Sampling Time:</b>	<b>1418 PM</b>		
<b>Type of Sample</b>	Effluent					
<b>Result Analysis</b>						
<b>Parameter</b>	<b>Value</b>	<b>Unit</b>	<b>DENR Effluent Standards</b>	<b>Compliant</b>		<b>Remarks</b>
				<b>Yes</b>	<b>No</b>	
BOD	75.9	mg/L	50		✓	Analysis conducted by EMB 8 Laboratory
TSS	22	mg/L	100	✓		
<b>Water Quality Field Date (sample collected on October 7, 2020)</b>						
<b>Sampling Point No. 1</b>						
<b>Sampling Station</b>	<b>PCPPI Outfall</b>		<b>Sampling Time:</b>	<b>1418 PM</b>		
<b>Type of Sample</b>	Effluent					
<b>Result Analysis</b>						
<b>Parameter</b>	<b>Value</b>	<b>Unit</b>	<b>DENR Effluent Standards</b>	<b>Compliant</b>		<b>Remarks</b>
				<b>Yes</b>	<b>No</b>	
BOD	<281.1	mg/L	50		✓	Analysis conducted by EMB 8 Laboratory
TSS	26	mg/L	100	✓		

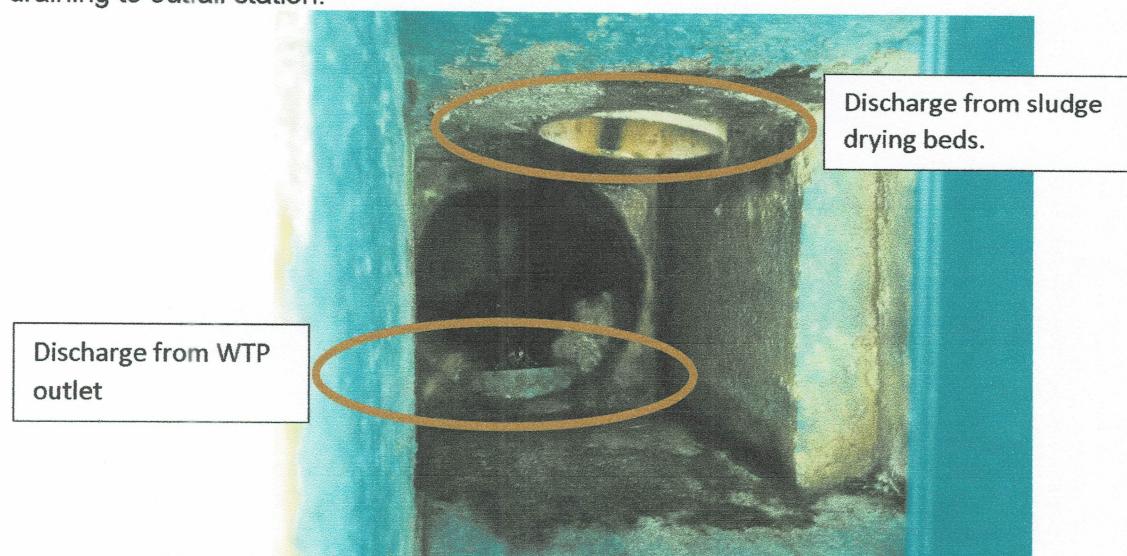
### III. SUMMARY OF FINDINGS

Legal Reference	Compliance Requirements	Compliant			Remarks
		Y	N	N/A	
DAO 2005-10 Rule 13.1	1. Does the establishment pay the required wastewater charge?	✓			
DAO 2005-10 Rule 14.1	2. Does the establishment have a Discharge Permit?	✓			
DAO 2005-10 Rule 14.5	3. Does the establishment pay the required discharge permit fee?	✓			
DAO 2005-10 Rule 14.9	4. Is the permit available and valid?	✓			
DAO 2005-10 Rule 14.11	5. Do the discharge points correspond to those declared in the discharge permit?	✓			
	6. Is the volume discharged within the allowable volume declared in the discharge permit?	✓			
	7. Is the permit posted in a proper area?	✓			
DAO 2005-10 Rule 14.16	8. Are the SMRs submitted quarterly and on time?	✓			
DAO 1990-35 Section 4-6	9. Are the effluent parameters compliant with the standards in DENR existing effluent standards?		✓		
DAO 1990-35 Section 8	10. Does the establishment comply with the additional requirements stated in DAO 1990-35?		✓		
DAO 1990-35 Section 9	11. Are the pollution control facilities properly and continuously operated?	✓			<b>WTP was operational during the time of monitoring. Aerators were operational.</b>
DAO 1990-35 Section 10	12. Are the methods of analysis used for effluent samples in accordance with the prescribed methods of the Department?	✓			
Other Requirements	13. Are the copies of water analysis reports available?	✓			
	14. Are the correspondence between the establishment and EMB documented?	✓			
	15. Are the establishment's compliance violations and exceedances documented?	✓			
	16. Are there any pending litigation/PAB cases?			✓	
	17. Are there spill prevention contingency plans?			✓	
	18. Are there spill containment facilities available?			✓	

#### Other Observations:

- The beverage industry was operational during the time of monitoring with a production of one liter Pepsi-Cola drinks.
- Discharge Permit (DP-RO8-20-03266) was issued August 3, 2020 valid until August 3, 2021.
- Wastewater discharges were observed at WTP outlet and discharge outfall during the time of monitoring. More volume of discharge was observed at the outfall station compared to the WTP outlet.

- Domestic wastewater/run-off is channeled directly to the sewer line towards the outfall. Wastewater is not treated in the WTP.
- Water samples were collected in both stations. Samples were submitted to EMB8 laboratory for BOD and TSS analyses.
- Results showed exceedances in both stations for BOD (>281.1 mg/L outfall and 75.9 mg/L outlet). BOD standard for Class C waters is 50 mg/L.
- Fecal coliform concentration (3,500 MPN/100 mL) at outfall also exceeded the DENR standard for Class C water (400 MPN/100mL).
- Section 7.2 of DENR Administrative Order No. 2016-08 provides that standards set in Table 9.0 shall be enforced and complied at all times.
- Discharge outlet for the leachate generated at the sludge drying beds directly drains into the sewer line and was not connected to the WTP. Droplets were observed from the sludge drying beds leachate outlet. Leachate at sludge drying beds should also be treated at WTP prior discharge to sewer line draining to outfall station.

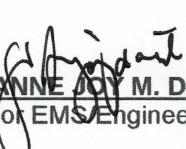


#### Remarks and Recommendation:

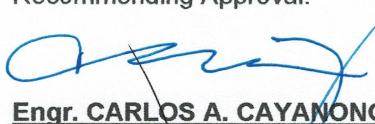
- ✓ For issuance of Notice of Violation *for parameter exceedances for BOD and Fecal Coliform as provided under Table 9.0 Effluent Standards, DENR Administrative Order No. 2016-08, which is a violation of Section 27 (a) “Discharging, depositing or causing to be deposited material of any kind directly or indirectly into the water bodies or along the margins of any surface water, either by tide action or by storm, floods or otherwise, which could cause water pollution or impede natural flow in the water body.”*
- ✓ Provide wastewater treatment for domestic wastewater.
- ✓ Include domestic wastewater parameters in Condition 1 of Discharge Permit.

#### List of Documents Reviewed: Discharge Permit

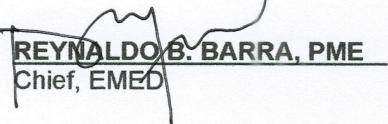
Submitted by:

  
**JO ANNE JOY M. DAÑAL/ENGR. JANET T. POLEA**  
 Senior EMS Engineer IV

Recommending Approval:

  
**Engr. CARLOS A. CAYANONG**  
 Chief, WAQMS

Approval:

  
**REYNALDO B. BARRA, PME**  
 Chief, EMED

Noted:

  
**LETECIA R. MACEDA**  
 Regional Director