



## SURVEY/INSPECTION FOR WATER QUALITY MANAGEMENT



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

Report Control Number: WS-03-06Date of Survey/Inspection: February 18, 2021Mission Order No.: EMBR8-2021-002654**1. GENERAL INFORMATION**

Name of Establishment: <b>Development/Expansion/Improvement of the Macrohon Municipal Waterworks System (Phase 2)</b>		
Address: <b>Macrohon, Southern Leyte</b>		Geo Coordinates: <b>10.113690° N, 124.943850° E</b>
Nature of Business: <b>Water System</b>		
PSIC Code: <b>3600</b>	Product:	Year Established: <b>2006</b>
Operating hours/day: <b>24</b>	Operating days/week: <b>7</b>	Operating days/year: <b>365</b>

Product Lines	Production Rate as Declared in the ECC (unit/day)	Actual Production Rate (unit/day)
Name of Managing Head:	<b>Arlan Augustine Heig E. Estela</b>	
Name of PCO:	<b>Arlan Augustine Heig E. Estela</b>	
PCO Accreditation No.:	<b>None</b>	Date of Effectivity: <b>N/A</b>
Phone/Fax:	<b>0915-907-8080</b>	Email: <a href="mailto:macrohon@outlook.ph">macrohon@outlook.ph</a>

**2. PURPOSE OF INSPECTION**

- ☐ Verify accuracy of information submitted by the establishment pertaining to new permit applications, renewals, or modification

	New	Renewal
<input type="checkbox"/> New Renewal		
<input type="checkbox"/> PMPIN Application	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hazardous Waste ID Registration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hazardous Waste Transporter Registration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Hazardous waste TSD Registration	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Permit to Operate Air Pollution Control Installation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Discharge Permit	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Others _____	<input type="checkbox"/>	<input type="checkbox"/>

- ☒ Determine compliance status with the environmental regulations, permit conditions, and other Requirements

- ☐ Investigate community complaints

- ☐ Check status of voluntary commitment

☐ Industrial Ecowatch

☐ Philippine Environmental Partnership Program (PEPP)

☐ Pollution Adjudication Board (PAB)

☐ Others \_\_\_\_\_

- ☐ Others \_\_\_\_\_

3. COMPLIANCE STATUS

3.1 DENR Permits/Licenses/Clearance

Environmental Law	Permits		Date of Issue	Expiry Date
PD 1586	ECC1	ECC-R08-0907-077-4300	07/17/2009	
	ECC2			
RA 6969	DENR Registry ID			
	PCL Compliance Certificate			
	CCO Registry			
	Permit to Transport			
RA 8749	POA No.			
RA 9003	ECC for Sanitary Landfill			
RA 9275	DP No.			

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			
Others (specify)			

B. Wastewater Sources

Water Use / Sources of Wastewater	Consumed (m³/day)	Generated (m³/day)	Specify if Others
Process Water			
Domestic Water			
Cooling Water			
Maintenance			
Storm drain			
Others (specify)			

C. Quality of Abstracted Water

Sources of Water Supply	BOD/ COD	TSS	AVFP	Heavy Metals	Specify if Others

5. Information on Wastewater Pollution N/A

A. Does the Establishment have a Wastewater Treatment Plant?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. What type of WWTP?		<input type="checkbox"/> Physical <input type="checkbox"/> Biological <input type="checkbox"/> Chemical <input type="checkbox"/> Others
C. WWTP Detail		
1. Date Installed		
2. Design Capacity		
3. Cost of WWTP		
4. Annual Maintenance Cost (Php/year)		
5. Location of Discharge Point(s)	Receiving Water Body	Classification of Water Body



7. Flow Rate <b>NO DATA</b>		Influent	Effluent	Others (specify)
<b>A. Components of WWTP</b>				
<b>Primary</b>	<b>Biological</b>	<b>Chemical</b>		<b>Others</b>
<input type="checkbox"/> Screening <input type="checkbox"/> Primary Treatment <input type="checkbox"/> Grit Removal <input type="checkbox"/> Oil/Water Separator <input type="checkbox"/> Equalization Tank <input type="checkbox"/> Others (specify) _____	<input type="checkbox"/> Activated Sludge <input 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 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 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?		N/A		
5. Estimated date of completion		N/A		
6. Treatment units utilized to treat wastewater		N/A		

<b>Water Quality Field Date</b>						
<b>Sampling Point No. 1</b>						
<b>Sampling Station</b>		No Data		<b>Sampling Time:</b>		
<b>Type of Sample</b>						
<b>Result Analysis</b>						
Parameter	Value	Unit	DENR Effluent Standards	Compliant		Remarks
				Yes	No	

<b>III. SUMMARY OF FINDINGS</b>					
Legal Reference	Compliance Requirements	Compliant			Remarks
		Y	N	N/A	
DAO 2005-10 Rule 14.1	1. Has the establishment submitted two notarized copies of accomplished application form?			✓	
DAO 2005-10 Rule	2. Has the establishment submitted Sewer and Drainage Plan Drawing of			✓	

	3. Has the establishment submitted water quality analysis of abstracted water and the appropriate bills?			✓	
	4. Has the establishment submitted Pollution Prevention/Environmental Management System Plan or Program?	✓			
	5. Has the establishment submitted copy of the Environmental Compliance Certificate or Certificate of Non-Coverage?	✓			
	6. Does the establishment have a DENR ID Number as hazardous waste generator, as applicable?		✓		
	7. Has the establishment designated or appointed a PCO?	✓			
	8. Does the establishment use its effluent for Agricultural Purposes?		✓		<b>If yes, proceed to succeeding items</b>
DAO 2005-10 Rule 14.6	a. Has the establishment submitted certified true copy of land ownership or notarized copy of agreement between the owner of the land where the effluent is to be applied and the discharger/permittee?			✓	
	b. Has the establishment submitted proof that wastewater to be used for land application does not contain toxic or substances (as defined in RA 6969)?			✓	
	c. Does the establishment's wastewater applied for agricultural purposes directly or indirectly seep or drain into groundwater or nearby surface waters which will affect the quality of such ground and/or surface water?			✓	
	d. Has the establishment submitted a Certification from the Department of Agriculture (DA) stating that the quantity, quality and distribution methodology of application are suited for agricultural purposes?			✓	
	e. Does the establishment use land application only during periods of low surface water flow to enhance loading limits compliance?			✓	
	f. Has the establishment submitted baseline groundwater quality data and self-monitoring report within the discharge areas, and installed at least one groundwater monitoring well which shall be drilled in each dominant direction of groundwater movement?			✓	
	g. Has the establishment submitted an			✓	

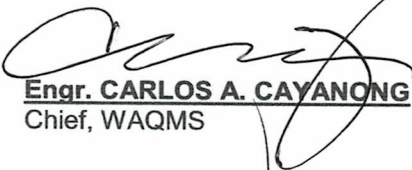
	groundwater, etc., and/or public health?				
	h. Does the plan highlight the design considerations, systems operation, treatment/monitoring of soil, crops, effluent and groundwater before/after irrigation? Such requirements shall be in addition to Section 14.2.			✓	

<b>Other Observations:</b>
<ul style="list-style-type: none"><li>➤ The project is operational during the time of inspection</li><li>➤ No potential wastewater discharge during cleaning in the filtration chamber since only silt from soil particles are trapped in the chamber and cleaning activity is done only when necessary.</li></ul>
<b>Remarks and Recommendation:</b>
<ul style="list-style-type: none"><li>➤ The project may not secure wastewater discharge permit since no potential wastewater discharge was observed.</li><li>➤ It is hereby recommended to exempt said undertaking and EIA Monitoring shall be sustained thus to ensure public safety</li></ul>
<b>List of Documents Reviewed: ECC</b>

Submitted by:

  
**ALEJANDROQUE G. MACATIGUE**  
Supervising EMS

Recommending Approval:

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

Approval:

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

Noted:

  
**LETECIA R. MACEDA**  
Regional Director