


	ENVIRONMENTAL MANAGEMENT BUREAU REGION 8	  
	COMPLIANCE INSPECTION FOR AIR QUALITY MANAGEMENT	

Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION-WATER AIR QUALITY MONITORING SECTION

Report Control Number: AIR-07-04
Date of Inspection: July 21, 2020
Mission Order No.: EMBR8-2020-002710

1. GENERAL INFORMATION		
Name of Establishment: AQUALINE CONSTRUCTION/TACLOBAN READY MIX CONSTRUCTION INC. (ASPHALT AND CONCRETE BATCHING PLANT)		
Address: BRGY. CANDAHUG PALO, LEYTE		Geo Coordinates: 11.184115°N 125.01643°E
Nature of Business: CONCRETE AND ASHALT BATCHING PLANTS		
PSIC Code: 239	Product: ready mixed concrete and hot mix asphalt	Year Established: 2016
Operating hours/day: 8	Operating days/week: 6	Operating days/year:
Product Lines	Production Rate as Declared in the ECC (unit/day)	Actual Production Rate (unit/day)
Name of Managing Head:		MR. NAPOLEON P. CONSEBIDO
Name of PCO:		ENGR. BOY ACHILLES GABICA
PCO Accreditation No.:	2018-RVIII-0125	Date of Effectivity: AUGUST 31, 2018
Phone/Fax:	09350234576	Email:

2. PURPOSE OF INSPECTION		
<input type="checkbox"/> Verify accuracy of information submitted by the establishment pertaining to new permit applications, renewals, or modification		
<div style="display: flex; justify-content: space-between;"> <div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> New Renewal </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> PMPIN Application </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Hazardous Waste ID Registration </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Hazardous Waste Transporter Registration </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Hazardous waste TSD Registration </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Permit to Operate Air Pollution Control Installation </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Discharge Permit </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Others _____ </div> </div> </div>	<div style="display: flex; justify-content: space-between; font-weight: bold; font-size: 0.8em;"> <div>New</div> <div>Renewal</div> </div> <div style="display: flex; flex-direction: column; align-items: center;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div>	<div style="display: flex; justify-content: space-between; font-weight: bold; font-size: 0.8em;"> <div>New</div> <div>Renewal</div> </div> <div style="display: flex; flex-direction: column; align-items: center;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div>
<input checked="" 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		
<div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Industrial Ecowatch </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Philippine Environmental Partnership Program (PEPP) </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Pollution Adjudication Board (PAB) </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <input type="checkbox"/> Others _____ </div>		
<input type="checkbox"/> Others _____		
Name of Contact Person		ENGR. BOY ACHILLES GABICA
Position / Designation		PCO

3. COMPLIANCE STATUS

3.1 DENR Permits/Licenses/Clearance

Environmental Law	Permits		Date of Issue	Expiry Date
PD 1586	ECC1	ECC-OL-RO8-2016-0006	01/22/2016	
	ECC2	amended	07/05/2018	
	ECC3			
RA 6969	DENR Registry ID	M-GR-R8-37-00386	10/22/2018	
	PCL Compliance Certificate			
	CCO Registry			
	Permit to Transport			
RA 8749	POA No.	17-POA-L-0837-0602	10/09/2018	12/05/2022
RA 9003	ECC for Sanitary Landfill			
RA 9275	DP No.	DP-RO8-19-02303	08/16/2019	08/16/2020

MODULE AQM01: PRE-INSPECTION INFORMATION SHEETFOR EMISSION SOURCES

Emission Source Data Information	
Emission Source No.	1
Type (Brand/Model)	CONCRETE BATCHING PLANT
Rated Capacity	60 M3/HR
Fuel Type & Quantity	ELECTRICALLY DRIVEN
Operating Capacity	
Control Facility	WATER SPRINKLER
Notes	

Emission Source Data Information	
Emission Source No.	2
Type (Brand/Model)	CONCRETE BATCHING PLANT
Rated Capacity	90 M3/HR
Fuel Type & Quantity	ELECTRICALLY DRIVEN
Operating Capacity	
Control Facility	WATER SPRINKLER
Notes	

Emission Source Data Information	
Emission Source No.	3
Type (Brand/Model)	ASPHALT BATCHING PLANT
Rated Capacity	80 TONS/DAY
Fuel Type & Quantity	ELECTRICALLY DRIVEN
Operating Capacity	
Control Facility	DUST COLLECTOR
Notes	

Emission Source Data Information	
Emission Source No.	4
Type (Brand/Model)	1 UNIT POWERMAN
Rated Capacity	
Fuel Type & Quantity	DIESEL
Operating Capacity	
Control Facility	
Notes STANDBY	

Legal Provision	Regulatory Requirements	Compliant			Notes
		Y	N	N/A	
DAO 2004-26					
Rule 19 Section 1	All emission sources have a valid Permit to Operate	✓			17-POA-L-0837-0602
Rule 19 Section 3	As built design of the installation conforms with submitted engineering plans and specifications	✓			
	Declared control facilities are installed and operational	✓			

	Installation is located as proposed in the vicinity map (plant and machinery layout)	✓			
	Facility design capacity is within the capacity declared in the application for permit to operate	✓			
Rule 19 Section 5	Temporary Permit is still valid			✓	
Rule 19 Section 6	Application for renewal has been filed for expiring Permit to Operate 30 days before permit expiration date			✓	
Rule 19 Section 9	Permit to Operate displayed conspicuously upon the installation or in an accessible / visible place near the installation	✓			
	Conditions of the Permit to Operate are complied with	✓			
Rule 19 Section 11	Plant operational problems notification submitted to EMB within 24 hours of occurrence			✓	
Rule 19 Section 12	Quarterly submission of self-monitoring report	✓			
DAO 2000-81					
Part 7 Rule 25 Section 5 a# 1	Person in charge of the plant / equipment has sufficient measure to ensure that no dark smoke is discharging from any stack in the establishment. E.g.: window view of stack, mirror to reflect top of stack, smoke density indicator, CCTV, etc.			✓	
Part 7 Rule 25 Section 5 a# 2	All oil-burning equipment have heaters capable of heating oil to a temperature appropriate for the oil and burner			✓	
Part 7 Rule 25 Section 5 a# 3	Establishment is fossil fuel-fired power plant over 10MW rating installed with CEMS for particulates, sulfur oxide, and NOx			✓	
	Establishment is petroleum refinery / petrochemical industry installed with CEMS for particulates, sulfur oxide, and NOx			✓	
	Establishment is primary copper smelter installed with CEMS for particulates, sulfur oxide, and NOx			✓	
	Establishment is steel plant installed with CEMS for particulates and sulfur oxide			✓	
	Establishment is ferro-alloy production facility installed with CEMS for particulates			✓	
	Establishment is cement plant installed with CEMS for particulates			✓	
Part 7 Rule 25 Section 5 b	Miscellaneous equipment like reheating furnace, smoke oven, bake oven, coffee heaters, varnish kettles, etc. are installed with pollution control facilities			✓	

Part 7 Rule 25 Section 13 a	Establishment has precautionary controls for dusts generated during vehicular movement, transportation of materials, construction, etc. (List controls identified)			✓	
Part 7 Rule 25 Section 13 b	Establishment has precautionary controls for volatile organic compounds or organic solvent emissions generated during storing, pumping, handling, processing, etc. (List controls identified)			✓	
Part 7 Rule 25 Section 13 d	No open burning activity in the establishment	✓			

EMB Memorandum Circulars					
MC 2009-04	Standby Gensets with capacity greater than or equal to 1,250 KW undergo annual emission testing (with 3 test runs). These gensets should not have the potential to emit more than 100tons/year of regulated pollutant.			✓	
MC 2007-003 (2)	Boiler rated at greater than or equal to 251HP undergo bi-annual emission testing (with 3 test runs)			✓	
	Other sources that have potential to emit equal to or greater than 100tons/year of regulated pollutant undergo bi-annual emission testing (with 3 test runs)			✓	
	Boiler rated between 100 to 250 HP undergo annual emission testing (with 3 test runs)			✓	
	Diesel generator rated at 600 to 1,249KW undergo annual testing (with 3 test runs)			✓	
	Other sources that have potential to emit greater than 30 but less than 100tons/year of regulated pollutant undergo annual emission testing (with 3 test runs)			✓	
	Sources of emissions of hazardous air pollutants included in PCL (DAO 1998 -58) undergo bi-annual emission testing (with 3 test runs)			✓	
	Emission sources of petroleum refinery undergo bi-annual emission testing (with 3 test runs)			✓	
	Emission sources of petrochemical works undergo bi-annual emission testing (with 3 test runs)			✓	

	Emission sources of smelters undergo bi-annual emission testing (with 3 test runs)			✓	
	Emission sources of cement kilns undergo bi-annual emission testing (with 3 test runs)			✓	
	Emission sources of steel -making plants undergo bi-annual emission testing (with 3 test runs)			✓	
	Emission sources of ferro-alloy-making plants undergo bi-annual emission testing (with 3 test runs)			✓	
	Emission sources of glass-making plants undergo bi-annual emission testing (with 3 test runs)			✓	
	Boiler rated at 99HP or less undergo biennial emission testing (with 3 test runs)			✓	
	Diesel generator rated at 599KW or less undergo biennial emission testing (with 3 test runs)			✓	
	Other sources that have potential to emit at least 10tons/year but less than 30tons/year of regulated pollutant undergo biennial emission testing (with 3 test runs)			✓	
	Source using Bunker Fuel Oil, blended fuels involving Bunker Fuel Oil, or sulfur content of 1% or more undergo bi-annual emission testing			✓	
Appendix F (Quality Assurance Procedures)					
Section 6 (8)	Notification has been sent to EMB for any changes made in the CEMS installation			✓	
	Notification has been sent to EMB for any changes made in the CEMS quality assurance and quality control plan			✓	
Section 6 (5)	Each CEMS is audited and conducted in accordance to CFR 40 part 60 Appendix F.			✓	
Section 6 (6)	Relative Accuracy Test Audit (RATA) is performed annually by industries in the presence of EMB personnel.			✓	

	Establishment has sent thirty (30) day notice to EMB prior to the RATA testing schedule			✓	
Section 6 (7)	Calibration gases are subject to audit or relative accuracy audit test every quarter			✓	
	Other alternative quarterly audits employed by the establishment are approved by EMB.			✓	
Section 6 (9)	EMB Director and Regional Director have been notified of CEMS malfunction that lasted longer than seven (7) consecutive days.			✓	
Section 7 (1)	Records of occurrence and duration of any start-up, shut-down or malfunction in the operation of any source or control facility is available in the establishment.			✓	
Section 7 (2)	Records of audits, performance testing, evaluations, calibration checks, adjustments and maintenance of any continuous emission monitors that have been installed pursuant to Rule IX Section 5 of DAO 2000-81 are available in the establishment.			✓	
Section 8 (1)	SMR includes data on the time intervals, date and magnitude of excess emissions, nature and cause of excess, corrective actions taken, and preventive measures adopted.			✓	
Section 8 (2)	SMR includes information on the averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard for the pollutant/source category in question.			✓	
Section 8 (3)	SMR includes information on time and date for each period during which the continuous monitoring system was inoperative and the nature of system repairs and adjustments made in the CEMS/COMS			✓	
Section 8 (4)	SMR data measurements are within 75% data capture?			✓	
For Facilities Engaged with Consent Agreement					
EMS established within 18 months upon entering Consent Agreement with EMB	EMS established within 18 months upon entering Consent Agreement with EMB			✓	
DAO 2000-81 Part 7 Rule 25 Section 9b	Environmental Management Plan derived from EMS process submitted within 6 months after entering Consent Agreement with EMB			✓	

Other Observations:

1. Two units concrete batching plants and one asphalt plant were observed in the project site. All plants were not operational during the time of monitoring.
2. The Asphalt Plant consist of bitumen storage tanks and supply system, Aggregates Drying System, Weighing and Mixing System provided with two (2) units dust collector as pollution control facility and one unit stack with estimated height of 12 meters and diameter of 1 meter. A diesel tank is provided for the diesel fuel to heat bitumen. Each bitumen tank is provided with two small chimneys for exhaust.
3. Permit to Operate Air (17-POA-L-0837-0602) was issued on October 9, 2018 valid until December 5, 2022 for two units concrete batching plant, one unit asphalt batching plant and one unit diesel engine generator set.
4. Accordingly, Management plans to install exhaust duct at stack which will lead to a settling pond to arrest emissions at asphalt plant.
5. Also, concrete batching plant 1 is for decommissioning since facilities were no longer repaired.
6. 2nd quarter SMR was also submitted online on July 23, 2020.

Remarks and Recommendation:

- ✓ Plant more trees as buffer zone and to arrest dust in plant premises.
- ✓ Apply for POA amendment to remove concrete batching plant 1 when de-commissioned.
- ✓ Conduct regular maintenance of pollution control facilities specifically checking/replacement of dust bags at asphalt plant.

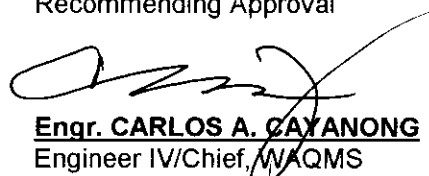
List of Documents Reviewed:

POA

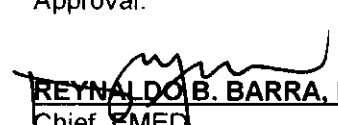
Submitted by:


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

Recommending Approval


Engr. CARLOS A. CAYANONG
Engineer IV/Chief, WAQMS

Approval:


REYNALDO B. BARRA, PME
Chief, EMED

Noted:


LETECIA R. MACEDA
Regional Director