

	<b>Environmental Management Bureau</b> <b>Regional Environmental Laboratory Region VIII</b> Brgy. Baras, Palo, Leyte
	<b>Certificate of Analysis</b>
	Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION-AMBIENT SECTION

Name/Source:	LKY The Orientals Resorts and Hotels (DP Renewal)		
Address/Location:	Palo Leyte		
Sampled by:	JC Salvador, CA Cayanong		
Date Arrived:	Feb 2, 2022 @ 12:05 PM	Date Acknowledged:	Feb 2, 2022 @ 12:08 PM
Date Reported:	Feb 7, 2022 @ 9:00 AM		

Chain of custody no.	Lab sample no.	Time of Collection	Sample type	Sample Information
2022-026	2208-077	Feb 2, 2022 @ 11:53 AM	effluent	water sample placed in 1000-mL and 500-mL plastic bottle

Environmental conditions during analysis:

Relative humidity: 47.4%

Temperature: 22.6°C

#### CHARACTERISTICS:

Parameters	Date analysed	Lab sample no.
		077
NO <sub>3</sub> <sup>-</sup> as N, mg/L	3-Feb-22	0.0188
PO <sub>4</sub> <sup>3-</sup> as P, mg/L	2-Feb-22	1.622
BOD, mg/L	2-Feb-22	30.5

Method used: Nitrate (NO<sub>3</sub><sup>-</sup>) and Chloride (Cl<sup>-</sup>) - Ion chromatography with Chemical Suppression of Eluent Conductivity  
 Phosphate (PO<sub>4</sub><sup>3-</sup>) Ascorbic acid method  
 BOD - 5-Day BOD Test

Method detection limit (MDL):

NO<sub>3</sub><sup>-</sup> as N, mg/L 0.0156 mg/L

BOD 0.1 mg/L

Reference: Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, AHA, AWWA, WEF

Remarks

1. This certificate of analysis is based on the sample as received by this office.
2. This certificate of analysis shall not be reproduced in full, without written approval from issuing laboratory.
3. ND : "not detected", < MDL

Analyzed by:

**SHEREY MAE U. BALAGAO, RCh**  
 Laboratory analyst, Chemistry  
 Reg. No. 0013722

**ARIEL B. SEVILLEN, RChT**  
 Laboratory analyst, Chemistry  
 Reg. No. 0003055

Approved by: /

**MANUEL J. SACEDA JR.**  
 OIC - Chief EMED

Certified by:

**APRILYN R. DANAS, RCh**  
 Laboratory Manager  
 Reg. No. 0011659

Noted by:

**REYNALDO B. BARRA**  
 OIC - Regional Director

cc Laboratory  
 Sampler  
 Records Unit

	<b>Environmental Management Bureau</b> <b>Regional Environmental Laboratory Region VIII</b> Brgy. Baras, Palo, Leyte	
	<b>Certificate of Analysis</b>	
	Department: ENVIRONMENTAL MONITORING AND ENFORCEMENT DIVISION-AMBIENT SECTION	

Name/Source:	LKY The Orientals Resorts and Hotels (DP Renewal)		
Address/Location:	Palo Leyte		
Sampled by:	JC Salvador, CA Cayanong		
Date Arrived:	Feb 2, 2022 @ 12:05 PM	Date Acknowledged:	Feb 2, 2022 @ 12:08 PM
Date Reported:	Feb 7, 2022 @ 9:00 AM		

Chain of custody no.	Lab sample no.	Time of Collection	Sample type	Sample Information
2022-026	2208-077	Feb 2, 2022 @ 11:53 AM	effluent	water sample placed in 1000-mL and 500-mL plastic bottle

Environmental conditions during analysis:

Relative humidity: 47.4%

Temperature: 22.6°C

## CHARACTERISTICS:

Parameters	Date analysed	Lab sample no.
		077
NO <sub>3</sub> <sup>-</sup> as N, mg/L	3-Feb-22	0.0188
PO <sub>4</sub> <sup>3-</sup> as P, mg/L	2-Feb-22	1.622
BOD, mg/L	2-Feb-22	30.5

Method used: Nitrate (NO<sub>3</sub><sup>-</sup>) and Chloride (Cl<sup>-</sup>)- Ion chromatography with Chemical Suppression of Eluent Conductivity  
 Phosphate (PO<sub>4</sub><sup>3-</sup>) Ascorbic acid method  
 BOD - 5-Day BOD Test

Method detection limit (MDL):

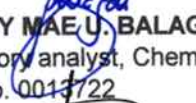
NO<sub>3</sub><sup>-</sup> as N, mg/L 0.0156 mg/L

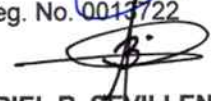
BOD 0.1 mg/L

Reference: Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017,  
 AHA, AWWA, WEF

Remarks 1. This certificate of analysis is based on the sample as received by this office.  
 2. This certificate of analysis shall not be reproduced in full, without written approval from issuing laboratory.  
 3. ND : "not detected", < MDL

Analyzed by:

  
**SHEREY MAE U. BALAGAO, RCh**  
 Laboratory analyst, Chemistry  
 Reg. No. 0013722

  
**ARIEL B. SEVILLENO, RChT**  
 Laboratory analyst, Chemistry  
 Reg. No. 0003055

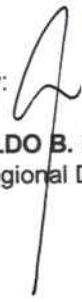
Approved by:

  
**MANUEL J. SACEDA JR.**  
 OIC - Chief EMED

Certified by:

  
**APRILYN R. BANAS, RCh**  
 Laboratory Manager  
 Reg. No. 0011659

Noted by:

  
**REYNALDO B. BARRA**  
 OIC - Regional Director

cc

Laboratory  
 Sampler  
 Records Unit

