



## Analysis / Test Report

TESTING  
No.0166

**Client :** Bangkok Phuket Hospital Co., Ltd.  
2/1, Hongyok Utis Road, Taladyai, Muang, Phuket Thailand 83000  
**P/O :** 005 - 4305321797  
**Project Name :** Water Testing : BPK  
**Project Location :**

**Lot ID: 22116201**

Date Received : Oct 05, 2022  
Date Reported : Nov 04, 2022  
Report Number : 2478583-1

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<b>Sample Number</b>	22116201-14
<b>Sampled Date</b>	Oct 04, 2022 11:48 AM
<b>Sample Description</b>	น้ำคลองหลังจุดปล่อยน้ำออก 100 m
<b>Location</b>	น้ำคลองหลังจุดปล่อยน้ำออก 100 m
<b>Date Analysis Commenced</b>	Oct 04, 2022
<b>Condition of Sample</b>	Contained in two BOD bottles, two amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.001	0.005	<0.005	≤0.01	Based on APHA (2017), 3125	Songkhla
Cadmium	mg/L	0.001	0.005	Not Detected	≤0.005	Based on APHA (2017), 3125	Songkhla
Chromium	mg/L	0.001	0.005	Not Detected	No Standard	Based on APHA (2017), 3125	Songkhla
Copper	mg/L	0.001	0.005	Not Detected	≤0.1	Based on APHA (2017), 3125	Songkhla
Lead	mg/L	0.001	0.005	Not Detected	≤0.05	Based on APHA (2017), 3125	Songkhla
Manganese	mg/L	0.001	0.005	0.21	≤1	Based on APHA (2017), 3125	Songkhla
Mercury *	mg/L	0.0003	0.0005	Not Detected	≤0.002	Based on APHA (2017), 3125	Songkhla
Nickel	mg/L	0.001	0.005	Not Detected	≤0.1	Based on APHA (2017), 3125	Songkhla
Zinc	mg/L	0.001	0.005	<0.005	≤1	Based on APHA (2017), 3125	Songkhla
<b>Microbiological Testing</b>							
Fecal Coliform	MPN/100mL	-	-	17000.0	≤1000	APHA (2017), 9221 E	Songkhla
Total Coliform	MPN/100mL	-	-	49000.0	≤5000	APHA (2017), 9221 B	Songkhla
<b>Pesticides - Organochlorine Group</b>							
<sup>[A]</sup> 2,4-DDD	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> 2,4-DDE	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> 2,4-DDT	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> 4,4-DDD	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> 4,4-DDE	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> 4,4-DDT	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Aldrin	ug/L	0.001	0.02	Not Detected	≤0.10	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> alpha-BHC	ug/L	0.001	0.02	Not Detected	≤0.02	Based on APHA (2017), 6630 C	Bangkok
alpha-Chlordane *	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

*Sutthirak T.*

Sutthirak Tiprat  
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<b>Sample Number</b>	22116201-14
<b>Sampled Date</b>	Oct 04, 2022 11:48 AM
<b>Sample Description</b>	น้ำคลองหลังจุดปล่อยน้ำออก 100 m
<b>Location</b>	น้ำคลองหลังจุดปล่อยน้ำออก 100 m
<b>Date Analysis Commenced</b>	Oct 04, 2022
<b>Condition of Sample</b>	Contained in two BOD bottles, two amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
<sup>[A]</sup> beta-BHC	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Chlordane	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
DDT *	ug/L	0.001	0.1	Not Detected	≤1	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> delta-BHC	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Dieldrin	ug/L	0.001	0.02	Not Detected	≤0.10	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Endosulfan I	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Endosulfan II	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Endosulfan Sulfate	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Endrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Endrin aldehyde *	ug/L	0.001	0.1	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Endrin ketone *	ug/L	0.001	0.1	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> gamma-Chlordane	ug/L	0.001	0.1	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Heptachlor	ug/L	0.001	0.02	Not Detected	≤0.20	Based on APHA (2017), 6630 C	Bangkok
Heptachlor and Heptachlor epoxide *	ug/L	0.001	0.02	Not Detected	≤0.2	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Heptachlor-Epoxide	ug/L	0.001	0.02	Not Detected	≤0.02	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Lindane (gamma-BHC)	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<sup>[A]</sup> Methoxychlor	ug/L	0.001	0.02	Not Detected	No Standard	Based on APHA (2017), 6630 C	Bangkok
<b>Water Testing</b>							
<sup>[A]</sup> Ammonia Nitrogen *	mg/L	-	0.06	0.47	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2	<2	≤1.5	Based on APHA (2017), 5210 B	Songkhla
Color (at Original pH) *	ADMI	-	5	<5	No Standard	Based on APHA (2017), 2120 F	Songkhla

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<b>Condition of Sample</b>	Contained in two BOD bottles, two amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Color (at pH 7.0) *	ADMI	-	5	<5	No Standard	Based on APHA (2017), 2120 F	Songkhla
<sup>[A]</sup> Cyanide as CN	mg/L	0.002	0.005	Not Detected	≤0.005	Based on APHA (2017), 4500-CN (C),(E)	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.3	≥6	Based on APHA (2017), 4500-O (C)	Songkhla
Gross alpha activity *	Bq/L	0.018	0.063	Not Detected	≤0.10	Based on APHA (2017), 7110 B	Bangkok
Gross beta activity *	Bq/L	0.012	0.063	0.231 ± 0.024	≤1	Based on APHA (2017), 7110 B	Bangkok
<sup>[A]</sup> Nitrate as N	mg/L	0.06	0.2	0.7	≤5	APHA (2017), 4110 B	Bangkok
Odour *		-	-	Odour	No Standard	Based on APHA (2017), 2150	Songkhla
pH at 25 degree C		-	-	7.6	5.0-9.0	Based on APHA (2017), 4500-H (B)	Songkhla
Phenol	mg/L	-	0.01	<0.01	No Standard	APHA (2017), 5530 C	Songkhla
Temperature *	Degree C	-	-	28.5	n'	Based on APHA (2017), 2550 B	Songkhla

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 2)

n : Not Change from natural condition

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Yuttapong Rattana , Thaksin Aintrom

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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