



Analysis / Test Report

TESTING
No.0166

Client : Bangkok Phuket Hospital Co., Ltd.
89/9 Moo 2, Tambon Vichit, Muang, Phuket Thailand 83000

P/O :

Project Name : Dibuk Hospital

Project Location :

Lot ID: 221398

Date Received : Jan 06, 2022

Date Reported : Jan 15, 2022

Report Number : 2205897-1

Page 1 of 1

Sample Number	221398-1
Sampled Date	Jan 05, 2022 1:10 PM
Sample Description	น้ำประปาปลายทาง แผนก ER
Location	อ่างล้างมือแผนก ER เดียง 7
Date Analysis Commenced	Jan 06, 2022
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.001	0.005	0.19	≤0.3	Based on APHA (2017), 3125	Songkhla
Manganese	mg/L	0.001	0.005	0.007	≤0.3	Based on APHA (2017), 3125	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 F	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 B	Songkhla
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	18.9	≤250	APHA (2017), 4110 B	Bangkok
Color *	Color unit	-	5	5	≤15 (Apparent Color)	APHA (2017), 2120 B	Songkhla
^[A] Nitrite as NO ₂	mg/L	0.15	0.4	Not Detected	≤3	APHA (2017), 4110 B	Bangkok
pH at 25 degree C		-	-	7.5	6.5-8.5	Based on APHA (2017), 4500-H (B)	Songkhla
^[A] Sulfate	mg/L	0.15	0.5	1.3	≤250	APHA (2017), 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	132	≤500	APHA (2017), 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	27	≤300	APHA (2017), 2340 C	Songkhla
Turbidity	NTU	-	0.1	2.58	≤5	APHA (2017), 2130 B	Songkhla

Guideline : เกณฑ์คุณภาพน้ำประปาดื่มได้ ประกาศ กรมอนามัย พ.ศ. 2563

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, DMSc Accreditation No. 1031/47.

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TESTING
No.0166

Client : Bangkok Phuket Hospital Co., Ltd.
89/9 Moo 2, Tambon Vichit, Muang, Phuket Thailand 83000

P/O :

Project Name : Dibuk Hospital

Project Location :

Lot ID: 2214231

Date Received : Feb 02, 2022

Date Reported : Feb 11, 2022

Report Number : 2220096-1

Page 1 of 2

Sample Number	2214231-1
Sampled Date	Feb 01, 2022 10:00 AM
Sample Description	น้ำประปาปลายทาง แผนก IMCU
Location	อ่างล้างมือ แผนก IMCU
Date Analysis Commenced	Feb 02, 2022
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
^[A] Iron	mg/L	0.003	0.005	0.03	≤0.3	Based on APHA (2017), 3125	Bangkok
^[A] Manganese	mg/L	0.0003	0.0005	0.002	≤0.3	Based on APHA (2017), 3125	Bangkok
Microbiological Testing							
<i>Escherichia coli</i> *	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 F	Songkhla
Total Coliform *	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 B	Songkhla
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	16.5	≤250	APHA (2017), 4110 B	Bangkok
Color *	Color unit	-	5	<5	≤15 (Apparent Color)	APHA (2017), 2120 B	Songkhla
^[A] Nitrite as NO ₂	mg/L	0.15	0.4	Not Detected	≤3	APHA (2017), 4110 B	Bangkok
pH at 25 degree C		-	-	7.4	6.5-8.5	Based on APHA (2017), 4500-H (B)	Songkhla
^[A] Sulfate	mg/L	0.15	0.5	1.4	≤250	APHA (2017), 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	115	≤500	APHA (2017), 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	<1	≤300	APHA (2017), 2340 C	Songkhla
Turbidity	NTU	-	0.1	0.73	≤5	APHA (2017), 2130 B	Songkhla

Guideline : เกณฑ์คุณภาพน้ำประปาดื่มได้ ประกาศ กรมอนามัย พ.ศ. 2563

Sampled By : Thaksin Aintrom

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Client : Bangkok Phuket Hospital Co., Ltd.
89/9 Moo 2, Tambon Vichit, Muang, Phuket Thailand 83000

P/O :

Project Name : Dibuk Hospital

Project Location :

Lot ID: 2228012

Date Received : Mar 03, 2022

Date Reported : Mar 12, 2022

Report Number : 2258801-1

Page 1 of 1

Sample Number	2228012-1
Sampled Date	Mar 02, 2022 10:00 AM
Sample Description	น้ำประปาปลายทาง แผนก Ward 4
Location	อ่างล้างมือ แผนก Ward 4
Date Analysis Commenced	Mar 03, 2022
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.001	0.005	0.04	≤0.3	Based on APHA (2017), 3125	Songkhla
Iron & Manganese *	mg/L	-	0.01	0.04	No Standard	Based on APHA (2017), 3125	Songkhla
Manganese	mg/L	0.001	0.005	<0.005	≤0.3	Based on APHA (2017), 3125	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 F	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 B	Songkhla
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	15.5	≤250	APHA (2017), 4110 B	Bangkok
Color *	Color unit	-	5	<5	≤15 (Apparent Color)	APHA (2017), 2120 B	Songkhla
^[A] Nitrite as NO ₂	mg/L	0.15	0.4	Not Detected	≤3	APHA (2017), 4110 B	Bangkok
pH at 25 degree C		-	-	7.4	6.5-8.5	Based on APHA (2017), 4500-H (B)	Songkhla
^[A] Sulfate	mg/L	0.15	0.5	1.4	≤250	APHA (2017), 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	124	≤500	APHA (2017), 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	19	≤300	APHA (2017), 2340 C	Songkhla
Turbidity	NTU	-	0.1	0.38	≤5	APHA (2017), 2130 B	Songkhla

Guideline : เกณฑ์คุณภาพน้ำประปาดื่มได้ ประกาศ กรมอนามัย พ.ศ. 2563

Sampled By : Yuttapong Rattana , Thaksin Aintrom

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No.0166

Client : Bangkok Phuket Hospital Co., Ltd.
89/9 Moo 2, Tambon Vichit, Muang, Phuket Thailand 83000

P/O :

Project Name : Dibuk Hospital

Project Location :

Lot ID: 2241909

Date Received : Apr 06, 2022

Date Reported : Apr 20, 2022

Report Number : 2278036-1

Page 1 of 2

Sample Number	2241909-1
Sampled Date	Apr 05, 2022 10:40 AM
Sample Description	น้ำประปาเดินทาง บ่อเก็บน้ำโรงผลิตน้ำ
Location	บ่อเก็บน้ำ Clear Water โรงผลิตน้ำ
Date Analysis Commenced	Apr 06, 2022
Condition of Sample	Contained in five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
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	≤0.003	Based on APHA (2017), 3125	Songkhla
Chromium	mg/L	0.001	0.005	Not Detected	≤0.05	Based on APHA (2017), 3125	Songkhla
Copper	mg/L	0.001	0.005	Not Detected	≤1.0	Based on APHA (2017), 3125	Songkhla
Iron	mg/L	0.001	0.005	0.04	≤0.3	Based on APHA (2017), 3125	Songkhla
Iron & Manganese *	mg/L	-	0.01	0.04	No Standard	Based on APHA (2017), 3125	Songkhla
Lead	mg/L	0.001	0.005	Not Detected	≤0.01	Based on APHA (2017), 3125	Songkhla
Manganese	mg/L	0.001	0.005	<0.005	≤0.3	Based on APHA (2017), 3125	Songkhla
Mercury	mg/L	0.0003	0.0005	0.001	≤0.001	Based on APHA (2017), 3125	Songkhla
Zinc	mg/L	0.001	0.005	0.04	≤3.0	Based on APHA (2017), 3125	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	MPN/100mL	-	-	6.9	<1.1	APHA (2017), 9221 F	Songkhla
Total Coliform	MPN/100mL	-	-	>23	<1.1	APHA (2017), 9221 B	Songkhla
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	15.0	≤250	APHA (2017), 4110 B	Bangkok
Color *	Color unit	-	5	<5	≤15 (Apparent Color)	APHA (2017), 2120 B	Songkhla
^[A] Fluoride as F	mg/L	0.05	0.1	0.5	≤0.7	APHA (2017), 4110 B	Bangkok
^[A] Nitrate as NO ₃	mg/L	0.3	1.0	Not Detected	≤50	APHA (2017), 4110 B	Bangkok
^[A] Nitrite as NO ₂	mg/L	0.15	0.4	Not Detected	≤3	APHA (2017), 4110 B	Bangkok
pH at 25 degree C	-	-	-	7.7	6.5-8.5	Based on APHA (2017), 4500-H (B)	Songkhla
^[A] Sulfate	mg/L	0.15	0.5	1.3	≤250	APHA (2017), 4110 B	Bangkok

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P/O :

Project Name : Dibuk Hospital

Project Location :

Lot ID: 2241909

Date Received : Apr 06, 2022

Date Reported : Apr 20, 2022

Report Number : 2278036-1

Page 2 of 2

Sample Number	2241909-1
Sampled Date	Apr 05, 2022 10:40 AM
Sample Description	น้ำประปาต้นทาง บ่อเก็บน้ำโรงผลิตน้ำ
Location	บ่อเก็บน้ำ Clear Water โรงผลิตน้ำ
Date Analysis Commenced	Apr 06, 2022
Condition of Sample	Contained in five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	98	≤500	APHA (2017), 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	18	≤300	APHA (2017), 2340 C	Songkhla
Turbidity	NTU	-	0.1	0.75	≤5	APHA (2017), 2130 B	Songkhla

Guideline : เกณฑ์คุณภาพน้ำประปาดื่มได้ ประกาศ กรมอนามัย พ.ศ. 2563

Sampled By : Yuttapong Rattana , Thaksin Aintrom

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TESTING
No.0166

Client : Bangkok Phuket Hospital Co., Ltd.
89/9 Moo 2, Tambon Vichit, Muang, Phuket Thailand 83000
P/O : 051-4305046360
Project Name : Dibuk Hospital
Project Location :

Lot ID: 2252766
Date Received : May 07, 2022
Date Reported : May 18, 2022
Report Number : 2301289-1

Page 1 of 2

Sample Number 2252766-1
Sampled Date May 06, 2022 10:25 AM
Sample Description น้ำประปา (น้ำไข)
Location น้ำประปาปลายทาง แผนก CSSD
Date Analysis Commenced May 07, 2022
Condition of Sample Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.001	0.005	0.03	≤0.3	Based on APHA (2017), 3125	Songkhla
Manganese	mg/L	0.001	0.005	Not Detected	≤0.3	Based on APHA (2017), 3125	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 F	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 B	Songkhla
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	15.2	≤250	APHA (2017), 4110 B	Bangkok
Color *	Color unit	-	5	5	≤15 (Apparent Color)	APHA (2017), 2120 B	Songkhla
^[A] Nitrite as NO ₂	mg/L	0.15	0.4	Not Detected	≤3	APHA (2017), 4110 B	Bangkok
pH at 25 degree C		-	-	7.7	6.5-8.5	Based on APHA (2017), 4500-H (B)	Songkhla
^[A] Sulfate	mg/L	0.15	0.5	1.4	≤250	APHA (2017), 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	52	≤500	APHA (2017), 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	22	≤300	APHA (2017), 2340 C	Songkhla
Turbidity	NTU	-	0.1	0.86	≤5	APHA (2017), 2130 B	Songkhla

Guideline : เกณฑ์คุณภาพน้ำประปาดื่มได้ ประกาศ กรมอนามัย พ.ศ. 2563

Sampled By : Yuttapong Rattana , Thaksin Aintrom

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TESTING
No.0166

Client : Bangkok Phuket Hospital Co., Ltd.
89/8, 89/9 Moo 2, Vichit, Muang, Phuket Thailand 83000

P/O :

Project Name : Dibuk Hospital

Project Location :

Lot ID: 2268971

Date Received : Jun 09, 2022

Date Reported : Jun 18, 2022

Report Number : 2347236-1

Page 1 of 1

Sample Number	2268971-1
Sampled Date	Jun 08, 2022 9:30 AM
Sample Description	น้ำประปาต้นทาง
Location	ถังเก็บน้ำตาดฟ้าอาคาร Tower
Date Analysis Commenced	Jun 09, 2022
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.001	0.005	0.03	≤0.3	Based on APHA (2017), 3125	Songkhla
Manganese	mg/L	0.001	0.005	<0.005	≤0.3	Based on APHA (2017), 3125	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 F	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 B	Songkhla
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	14.5	≤250	APHA (2017), 4110 B	Bangkok
Color (Apparent) *	Color unit	-	5	<5	≤15	APHA (2017), 2120 B	Songkhla
^[A] Nitrate as NO ₃	mg/L	0.3	1.0	<1.0	≤50	APHA (2017), 4110 B	Bangkok
pH at 25 degree C		-	-	7.5	6.5-8.5	Based on APHA (2017), 4500-H (B)	Songkhla
Residual Free Chlorine	mg/L	-	0.1	1.4	No Standard	APHA (2017), 4500-Cl (F)	Songkhla
^[A] Sulfate	mg/L	0.15	0.5	1.3	≤250	APHA (2017), 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	73	≤500	APHA (2017), 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	21	≤300	APHA (2017), 2340 C	Songkhla
Turbidity	NTU	-	0.1	0.62	≤5	APHA (2017), 2130 B	Songkhla

Guideline : เกณฑ์คุณภาพน้ำประปาดื่มได้ ประกาศ กรมอนามัย พ.ศ. 2563

Sampled By : Thaksin Aintrom , Yuttapong Rattana

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