



Accreditation No. 1031/47

Analysis / Test Report

Client : M. Water Co., Ltd.
1 Soi Vibhavadee-Rangsit 41 Yak 1, Sanambin, Donmuang, Bangkok Thailand 10210

P/O : MPO6402/00376

Project Name :

Project Location :

Lot ID: 2141749

Date Received : Apr 03, 2021

Date Reported : Apr 21, 2021

Report Number : 1963364-1

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Sample Number 2141749-1
Sampled Date Apr 02, 2021 1:59 PM
Sample Description Sprinkle Drinking Water on April 2021
Date Analysis Commenced Apr 03, 2021
Condition of Sample Contained in one plastic bottle (client container), refrigerated

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.00005	0.0001	Not Detected	≤0.01	Based on APHA (2017), 3125	Bangkok
Barium	mg/L	0.00005	0.0001	0.0006	≤0.7	Based on APHA (2017), 3125	Bangkok
Cadmium	mg/L	0.00005	0.0001	Not Detected	≤0.003	Based on APHA (2017), 3125	Bangkok
Chromium	mg/L	0.00005	0.0001	<0.0001	≤0.05	Based on APHA (2017), 3125	Bangkok
Copper	mg/L	0.00005	0.0001	Not Detected	≤1	Based on APHA (2017), 3125	Bangkok
Iron	mg/L	0.0005	0.001	<0.001	≤0.3	Based on APHA (2017), 3125	Bangkok
Lead	mg/L	0.00005	0.0002	Not Detected	≤0.01	Based on APHA (2017), 3125	Bangkok
Manganese	mg/L	0.00005	0.0001	<0.0001	≤0.05	Based on APHA (2017), 3125	Bangkok
Mercury	mg/L	0.000008	0.0001	<0.0001	≤0.001	Based on US EPA, Method 1631 Revision E	Bangkok
Selenium	mg/L	0.00005	0.0001	Not Detected	≤0.01	Based on APHA (2017), 3125	Bangkok
Zinc	mg/L	0.001	0.005	<0.005	≤3	Based on APHA (2017), 3125	Bangkok
Microbiological Testing							
<i>Clostridium perfringens</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method STM No. 01-012 in connection with: - APHA (2017), 9260 A,B - BAM (2001), Chapter 16	Bangkok
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	APHA (2017), 9221 F	Bangkok
<i>Salmonella spp.</i>	in 100 mL	-	-	Not Detected	Not Detected	APHA (2017), 9260 B	Bangkok
Standard Plate Count	CFU/mL	-	-	<1	≤500	APHA (2017), 9215 B	Bangkok
<i>Staphylococcus aureus</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method STM No. 01-054 in connection with: - APHA (2017), 9213 B - BAM (2016), Chapter 12	Bangkok
Total Coliform	MPN/100mL	-	-	<1.1	<1.1	APHA (2017), 9221 B	Bangkok
Water Testing							
Alkylbenzene Sulfonate as MBAS	mg/L	0.05	0.1	Not Detected	≤0.2	APHA (2017), 5540 C	Bangkok

Approved by

Tuanjai Thangklang
Assistant Manager

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Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.06	0.2	1.2	≤250	APHA (2017), 4110 B	Bangkok
Color	Color unit	-	5	<5	≤5	APHA (2017), 2120 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	≤0.07	APHA (2017), 4500-CN (C),(E)	Bangkok
Fluoride as F	mg/L	0.05	0.1	Not Detected	≤0.7	APHA (2017), 4110 B	Bangkok
Nitrate as N	mg/L	0.06	0.2	<0.2	≤4	APHA (2017), 4110 B	Bangkok
Odour	-	-	-	Odourless	Non Objectionable	APHA (2017), 2150 B	Bangkok
pH at 25 degree C	-	-	-	6.6	6.5-8.5	APHA (2017), 4500-H(B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤0.001	APHA (2017), 5530 C	Bangkok
Sulfate	mg/L	0.15	0.5	<0.5	≤200	APHA (2017), 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	16	≤500	Based on APHA (2017), 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	0.5	1	<1	≤100	APHA (2017), 2340 C	Bangkok
Total Solids Dried at 103-105 degree C	mg/L	-	5	20	No Standard	APHA (2017), 2540 B	Bangkok
Turbidity	NTU	-	0.1	0.25	≤5	APHA (2017), 2130 B	Bangkok

Guideline : Thai Industrial Standard No. 257-2549 refer to Notification of the Ministry of Industry No. 3470 (B.E. 2549).

Note : This Analysis test report is reissued to supersede report No. 1951991-1, Date Reported : Apr 17, 2021

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.

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Tuanjai Thangklang
Assistant Manager

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