



Accreditation No. 1031/47

Analysis / Test Report

Client : M. Water Co., Ltd.
204 Moo 3, T.Chamaep, A.Wangnoi, Phranakorn Sri Ayutthaya 13170

P/O :
Project Name :
Project Location :

Lot ID: 238051

Date Received : Jan 23, 2023

Date Reported : Feb 06, 2023

Report Number : 2561032-1

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Sample Number 238051-1
Sampled Date Jan 20, 2023 5:20 PM
Sample Description Sprinkle Drinking water 550 ml.
(ประจําเดือนมกราคม 2566)
MFG: 20/01/23
EXP: 20/01/25
Date Analysis Commenced Jan 24, 2023
Condition of Sample Contained in twelve plastic bottles (client container)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	Not Detected	≤0.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.003	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Chromium	mg/L	0.0003	0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Iron	mg/L	0.003	0.005	Not Detected	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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Approved by

Tuanjai Thangklang
Manager

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Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Manganese	mg/L	0.0003	0.0005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	Not Detected	≤3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
<i>Clostridium perfringens</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method STM No. 01-012 in connection with: - Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9260 A,B - FDA BAM online, 2001 (Chapter 16)	Bangkok
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 F	Bangkok
<i>Salmonella spp.</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9260 B	Bangkok

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Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Standard Plate Count	CFU/mL	-	-	<1	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9215 B	Bangkok
<i>Staphylococcus aureus</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method STM No. 01-054 in connection with: - Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9213 B - FDA BAM online, 2016 (Chapter 12)	Bangkok
Total Coliform	MPN/100mL	-	-	<1.1	<1.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
Water Testing							
Alkylbenzene Sulfonate as MBAS	mg/L	0.05	0.1	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5540 C	Bangkok
Chloride as Cl	mg/L	0.06	0.2	0.7	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Color	Color unit	-	5	<5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	≤0.07	In-house method : STM 04-007 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Bangkok
Fluoride as F	mg/L	0.05	0.1	Not Detected	≤0.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok

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Water Testing							
Nitrate as N	mg/L	0.06	0.2	Not Detected	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Odour		-	-	Odourless	Non Objectionable	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2150 B	Bangkok
pH at 25 degree C		-	-	6.5	6.5-8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Phenol	mg/L	0.0005	0.001	Not Detected	≤0.001	In-house method : STM 04-022 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5530 C	Bangkok
Sulfate	mg/L	0.15	0.5	0.7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	<5	≤500	In-house method : STM 04-011 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Hardness as CaCO ₃	mg/L	0.5	1	<1	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C, 2340 C	Bangkok
Turbidity	NTU	-	0.1	0.10	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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.2549735-1, Date Reported : Feb 02, 2023 due to revise analytical information.

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- 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.
 - The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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