

ANALYSIS REPORT

CUSTOMER NAME : IDEO MOBI SUKHUMVIT EASTGATE
ADDRESS : 4371 SUKHUMVIT ROAD BANG NA BANG NA BANGKOK 10260
CONTACT INFORMATION : TEL : 06 4771 5488,09 1836 9690 e-mail : apichat.theworks@ananda.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WATER SUPPLY
SAMPLING DATE : NOVEMBER 18, 2022
SAMPLING TIME : 13:10 HOUR
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° : MR TEERAPONG SRIKAMHANG
ANALYZED BY : MISS KEWALEE SUKHAREE

RECEIVED DATE : NOVEMBER 18, 2022
ANALYTICAL DATE : NOVEMBER 18-24, 2022
REPORT NO. : 2022-U095096
WORK NO. : 2022-008177
ANALYSIS NO. : T22AX046-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ก๊อกร้ำดขั้้น 5 T22AX046-0002		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.5 (30°C)	6.5-8.5	-
APPARENT COLOUR °	Pt-Co	SINGLE-WAVELENGTH METHOD (PROPOSED); (SM: 2120 C)	2.22	≤ 15	1.00
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	1.2	≤ 5	0.1
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	184	≤ 500	25
TOTAL HARDNESS °	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM: 2340 C)	92.9	≤ 300	4.0
CHLORIDE °	mg/L Cl ⁻	ARGENTOMETRIC METHOD (SM: 4500-Cl ⁻ B)	18.1	≤ 250	2.0
FLUORIDE °	mg/L F ⁻	SPADNS METHOD (SM: 4500-F° D)	0.07	≤ 0.7	0.02
NITRATE °	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: 4500 -NO ₃ ⁻ E)	ND	≤ 50	0.09
NITRITE °	mg/L NO ₂ ⁻	NED COLOURIMETRIC METHOD (SM: 4500 -NO ₂ ⁻ B)	ND	≤ 3	0.07
SULPHATE °	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: 4500-SO ₄ ²⁻ E)	24.2	≤ 250	0.3
METALS					
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	≤ 0.01	0.0003
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	≤ 0.001	0.0001
CADMIUM °	mg/L Cd	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 0.003	0.002
COPPER °	mg/L Cu	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 1	0.002
IRON °	mg/L Fe	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 0.3	0.005
LEAD °	mg/L Pb	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 0.01	0.003
MANGANESE °	mg/L Mn	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 0.3	0.002
TOTAL CHROMIUM °	mg/L Cr	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 0.05	0.005
ZINC °	mg/L Zn	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	0.464	≤ 3	0.003



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ก๊อคน้ำัดชั้น 5 T22AX046-0002		
MICROBIOLOGY					
COLIFORM BACTERIA ^c	/100 mL	PRESENCE-ABSENCE (P-A) COLIFORM TEST (SM: 9221 D)	NOT DETECTED	NOT DETECTED	-
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : DRINKING WATER STANDARDS, ISSUED UNDER THE DEPARTMENT OF HEALTH B.E. 2563, (2020).

ND : NON-DETECTABLE.

Bhuchonk

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

DECEMBER 1, 2022

ANALYSIS REPORT

CUSTOMER NAME	: IDEO MOBI SUKHUMVIT EASTGATE	RECEIVED DATE	: NOVEMBER 18, 2022
ADDRESS	: 4371 SUKHUMVIT ROAD BANG NA BANG NA BANGKOK 10260	ANALYTICAL DATE	: NOVEMBER 18-24, 2022
CONTACT INFORMATION	: TEL : 06 4771 5488, 09 1836 9690 e-mail : apichat.theworks@ananda.co.th	REPORT NO.	: 2022-U095095
SAMPLING SOURCE	: -	WORK NO.	: 2022-008177
SAMPLE TYPE	: WATER SUPPLY	ANALYSIS NO.	: T22AX046-0001
SAMPLING DATE	: NOVEMBER 18, 2022		
SAMPLING TIME	: 13:00 HOUR		
SAMPLING METHOD °	: GRAB, GRAB AND STERILE TECHNIQUE		
SAMPLING BY °	: MR TEERAPONG SRIKAMHANG		
ANALYZED BY	: MISS KEWALEE SUKHAREE		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อน้ำดิบชั้นใต้ดิน T22AX046-0001		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.4 (30°C)	6.5-8.5	-
APPARENT COLOUR °	Pt-Co	SINGLE-WAVELENGTH METHOD (PROPOSED); (SM: 2120 C)	1.85	≤ 15	1.00
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	1.4	≤ 5	0.1
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	189	≤ 500	25
TOTAL HARDNESS °	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM: 2340 C)	93.7	≤ 300	4.0
CHLORIDE °	mg/L Cl ⁻	ARGENTOMETRIC METHOD (SM: 4500-Cl ⁻ B)	21.5	≤ 250	2.0
FLUORIDE °	mg/L F ⁻	SPADNS METHOD (SM: 4500-F° D)	0.08	≤ 0.7	0.02
NITRATE °	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: 4500 -NO ₃ ⁻ E)	ND	≤ 50	0.09
NITRITE °	mg/L NO ₂ ⁻	NED COLOURIMETRIC METHOD (SM: 4500 -NO ₂ ⁻ B)	ND	≤ 3	0.07
SULPHATE °	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: 4500-SO ₄ ²⁻ E)	24.1	≤ 250	0.3
METALS					
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0003	≤ 0.01	0.0003
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	≤ 0.001	0.0001
CADMIUM °	mg/L Cd	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 0.003	0.002
COPPER °	mg/L Cu	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 1	0.002
IRON °	mg/L Fe	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 0.3	0.005
LEAD °	mg/L Pb	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 0.01	0.003
MANGANESE °	mg/L Mn	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 0.3	0.002
TOTAL CHROMIUM °	mg/L Cr	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	0.006	≤ 0.05	0.005
ZINC °	mg/L Zn	DIRECT AIR ACETYLENE FLAME METHOD (SM: 3111 B)	ND	≤ 3	0.003



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			บ่อน้ำดีชั้นใต้ดิน T22AX046-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^c	/100 mL	PRESENCE-ABSENCE (P-A) COLIFORM TEST (SM: 9221 D)	NOT DETECTED	NOT DETECTED	-
<i>E. coli</i> ^b	/100 mL	FLUOROGENIC SUBSTRATE TEST (SM: 9221 D AND F)	NOT DETECTED	NOT DETECTED	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT					

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