

SAMPLE ID : CL / AC71426 / 2014
LAB ID : CL / 184122 / 2014
BATCH NO : CL / 2014-12-12-027 - 21
DATE : 02 January, 2015
P.O NO : -
CLIENT REF NO : -

CERTIFICATE OF ANALYSIS


CLIENT : WATER CARE VISION SDN. BHD.
 NO.46, JALAN KIP 9,
 TAMAN PERINDUSTRIAN KIP, KEPONG,
 52200 KUALA LUMPUR.


SAMPLE DESCRIPTION : ONE (1) SAMPLE OF WATER

SAMPLE RECEIVED : 12 December 2014

SAMPLE MARKING : NATURA WATER FILTRATION SYSTEM - BEFORE


TEST PARAMETER	UNIT	TEST METHOD	SPECIFICATION	RESULT
Color	Hazen	APHA 2120 B, 21st edition	Max 5	<5
Turbidity	NTU	APHA 2130 B, 21st edition	Max 0.1	0.82
pH Value	-	APHA 4500-H+ B, 21st edition	6.5 - 8.5	7.47 @ 25°C
Aldrin & Dieldrin	mg/l	APHA 6630 B, 20th edition	Absent	N.D (<0.00002)
Aluminium (as Al)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.04	0.64
Ammonia (as N)	mg/l	APHA 4500-NH3 B&C	Max 0.1	N.D
Anionic Detergent (as MBAS)	mg/l	APHA 5540 C, 21st edition	Max 0	N.D (<0.1)
Antimony (as Sb)	mg/l	APHA 3125 B (ICP-MS)	Max 0.001	0.0003
Arsenic (as As)	mg/l	APHA 3125 B (ICP-MS)	Max 0.001	0.0002
Barium (as Ba)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.14	0.19
Biocides	mg/l	APHA 6630 B	Max 0.02	N.D (<0.02)
Boron (as B)	mg/l	APHA 3120 B (ICP), 21st edition	-	N.D (<0.1)
Bromodichloromethane	mg/l	USEPA 8260 C	Max 0.012	N.D (<0.005)
Bromoform	mg/l	USEPA 8260 C	Max 0.02	N.D (<0.005)
Cadmium (as Cd)	mg/l	APHA 3125 B (ICP-MS)	Max 0.0006	N.D (<0.0002)
Carbon Chloroform extract (as TOC)	mg/l	Gravimetric Method	Max 0.1	N.D
Chlordane	mg/l	APHA 6630 B, 20th Edition	Absent	N.D (<0.00002)



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 Microbiologist


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 Chemist

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Chloride (as Cl)	mg/l	APHA 4500-Cl B, 21st edition	Max 50	15
Chloroform	mg/l	USEPA 8260 C	Max 0.006	N.D
Chlorpyrifos	mg/l	GC	Absent	N.D (<0.00002)
Chromium (as Cr)	mg/l	APHA 3125 B (ICP-MS)	Max 0.01	0.0017
Copper (as Cu)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.2	N.D (<0.01)
Cyanide (as CN)	mg/l	HACH Pyridine-Pyrazalone Method	-	0.002
2,4-D	mg/l	HPLC	Absent	N.D (<0.1)
DDT	mg/l	APHA 6630 B, 20th Edition	Absent	0.000092
Dibromochloromethane	mg/l	USEPA 8260 C	Max 0.02	N.D (<0.005)
Endosulfan	mg/l	APHA 6630 B, 20th Edition	Absent	N.D (<0.00002)
Fluoride (as F)	mg/l	HACH SPADNS METHOD	Max 0.6	N.D (<0.02)
Hardness (as CaCO ₃)	mg/l	APHA 2340 C, 21st edition	Max 100	33
Heptachlor and Heptachlor Epoxide	mg/l	APHA 6630 B, 20th edition	Absent	N.D (<0.00002)
Hexachlorobenzene	mg/l	APHA 6630 B, 20th edition	Absent	N.D (<0.00001)
Iron (as Fe)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.06	0.11
Lead (as Pb)	mg/l	APHA 3125 B (ICP-MS)	Max 0.002	N.D (<0.001)
Lindane	mg/l	APHA 6630 B, 20th Edition	Absent	N.D (<0.00002)
Magnesium (as Mg)	mg/l	APHA 3120 B (ICP), 21st edition	Max 30	1.04
Manganese (as Mn)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.02	N.D (<0.01)
Mercury (as Hg)	mg/l	In-house method, CL-TM-02-023, based on APHA 3112 B, 21st edition	Max 0.0002	N.D (<0.0002)
Methoxychlor	mg/l	APHA 6630 B, 20th Edition	Absent	N.D (<0.00002)
Mineral Oil	mg/l	MS 1350:1994 Appendix P	Max 0.06	N.D (<0.01)
Nitrite (as NO ₂)	mg/l	HACH Diazotization Method	Max 0.04	N.D (<0.002)
Nitrate (as NO ₃)	mg/l	HACH Cadmium Reduction Method	Max 10	1.3


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Nitrate (as N)	mg/l	HACH CADMIUM REDUCTION	Max 2	0.3
Nickel (as Ni)	mg/l	APHA 3125 B (ICP-MS)	Max 0.004	0.0005
Phenol	mg/l	APHA 6420 B, 21st Edition	Max 0.0004	N.D (<0.002)
Residual Chlorine (as Cl2)	mg/l	APHA 4500-Cl B&G	Max 0.04	N.D (<0.01)
Selenium (as Se)	mg/l	APHA 3125 B (ICP-MS)	Max 0.002	N.D (<0.0002)
Silver (as Ag)	mg/l	APHA 3125 B (ICP-MS)	Max 0.01	N.D (<0.0002)
Sodium (as Na)	mg/l	APHA 3120 B (ICP), 21st edition	Max 40	4.34
Styrene	mg/l	USEPA 8260 C	Max 0.02	N.D (<0.005)
Sulphate (SO4)	mg/l	HACH SulfaVer 4 Method	Max 50	19
Zinc (as Zn)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.6	0.02
Coliform	MPN/100ml	APHA 9221 B	Max 10	N.D
E.coli	MPN/100ml	APHA 9221 F	Absent	N.D
Fecal Coliform	MPN/100ml	APHA 9221 E	Absent	N.D
Sulphite Reducing Anaerobes	cfu/100ml	ISO 6461/2:1986 (Membrane Filtration)	Absent	N.D
Clostridium perfringens	cfu/100ml	ISO 14189:2013 (Membrane Filtration)	Absent	N.D
Pseudomonas aeruginosa	cfu/100ml	APHA 9213 E, 22nd Edition (Membrane Filtration)	Absent	N.D
Faecal Streptococci	cfu/100ml	In-House Method, CL-TM-04-026, based on APHA 9230 C, 22nd Edition (Membrane Filtration)	Absent	N.D

REMARK:

- 1) The above tests are based on the requirement of Drinking Water in Malaysia Food Act, 1983 & Food Regulation, 1985 under the 25th Schedule (Regulation 360 B).
- 2) The above results are issued based on sample received.
- 3) N.D - Not Detected.
- 5) Microbiological result reported as N.D denotes <1 for Clostridium perfringens, Fecal Streptococcus, Pseudomonas aeruginosa & Sulphite reducing bacteria and <2 for Coliform, E.coli & Fecal Coliform.
- 6) Residual Chlorine is carried out after the 0.25 hour holding time requirement.


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SAMPLE MARKING : NATURA WATER FILTRATION SYSTEM - AFTER


TEST PARAMETER	UNIT	TEST METHOD	SPECIFICATION	RESULT
Color	Hazen	APHA 2120 B, 21st edition	Max 5	<5
Turbidity	NTU	APHA 2130 B, 21st edition	Max 0.1	0.07
pH Value	-	APHA 4500-H+ B, 21st edition	6.5 - 8.5	7.64 @ 25°C
Aldrin & Dieldrin	mg/l	APHA 6630 B, 20th edition	Absent	N.D (<0.00002)
Aluminium (as Al)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.04	0.08
Ammonia (as N)	mg/l	APHA 4500-NH3 B&C	Max 0.1	N.D
Anionic Detergent (as MBAS)	mg/l	APHA 5540 C, 21st edition	Max 0	N.D (<0.1)
Antimony (as Sb)	mg/l	APHA 3125 B (ICP-MS)	Max 0.001	0.0003
Arsenic (as As)	mg/l	APHA 3125 B (ICP-MS)	Max 0.001	0.0006
Barium (as Ba)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.14	N.D (<0.03)
Biocides	mg/l	APHA 6630 B	Max 0.02	N.D (<0.02)
Boron (as B)	mg/l	APHA 3120 B (ICP), 21st edition	-	N.D (<0.1)
Bromodichloromethane	mg/l	USEPA 8260 C	Max 0.012	N.D (<0.005)
Bromoform	mg/l	USEPA 8260 C	Max 0.02	N.D (<0.005)
Cadmium (as Cd)	mg/l	APHA 3125 B (ICP-MS)	Max 0.0006	N.D (<0.0002)
Carbon Chloroform extract (as TOC)	mg/l	Gravimetric Method	Max 0.1	N.D
Chlordane	mg/l	APHA 6630 B, 20th Edition	Absent	N.D (<0.00002)


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Chloride (as Cl)	mg/l	APHA 4500-Cl B, 21st edition	Max 50	15
Chloroform	mg/l	USEPA 8260 C	Max 0.006	N.D
Chlorpyrifos	mg/l	GC	Absent	N.D (<0.00002)
Chromium (as Cr)	mg/l	APHA 3125 B (ICP-MS)	Max 0.01	0.0028
Copper (as Cu)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.2	N.D (<0.01)
Cyanide (as CN)	mg/l	HACH Pyridine-Pyrazalone Method	-	0.001
2,4-D	mg/l	HPLC	Absent	N.D (<0.1)
DDT	mg/l	APHA 6630 B, 20th Edition	Absent	0.000097
Dibromochloromethane	mg/l	USEPA 8260 C	Max 0.02	N.D (<0.005)
Endosulfan	mg/l	APHA 6630 B, 20th Edition	Absent	N.D (<0.00002)
Fluoride (as F)	mg/l	HACH SPADNS METHOD	Max 0.6	N.D (<0.02)
Hardness (as CaCO ₃)	mg/l	APHA 2340 C, 21st edition	Max 100	39
Heptachlor and Heptachlor Epoxide	mg/l	APHA 6630 B, 20th edition	Absent	N.D (<0.00002)
Hexachlorobenzene	mg/l	APHA 6630 B, 20th edition	Absent	N.D (<0.00001)
Iron (as Fe)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.06	0.25
Lead (as Pb)	mg/l	APHA 3125 B (ICP-MS)	Max 0.002	N.D (<0.001)
Lindane	mg/l	APHA 6630 B, 20th Edition	Absent	N.D (<0.00002)
Magnesium (as Mg)	mg/l	APHA 3120 B (ICP), 21st edition	Max 30	1.16
Manganese (as Mn)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.02	0.05
Mercury (as Hg)	mg/l	In-house method, CL-TM-02-023, based on APHA 3112 B, 21st edition	Max 0.0002	N.D (<0.0002)
Methoxychlor	mg/l	APHA 6630 B, 20th Edition	Absent	N.D (<0.00002)
Mineral Oil	mg/l	MS 1350:1994 Appendix P	Max 0.06	N.D (<0.01)
Nitrite (as NO ₂)	mg/l	HACH Diazotization Method	Max 0.04	0.030
Nitrate (as NO ₃)	mg/l	HACH Cadmium Reduction Method	Max 10	5.3


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Phenol	mg/l	APHA 6420 B, 21st Edition	Max 0.0004	N.D (<0.002)
Residual Chlorine (as Cl2)	mg/l	APHA 4500-Cl B&G	Max 0.04	0.02
Selenium (as Se)	mg/l	APHA 3125 B (ICP-MS)	Max 0.002	0.0002
Silver (as Ag)	mg/l	APHA 3125 B (ICP-MS)	Max 0.01	N.D (<0.0002)
Sodium (as Na)	mg/l	APHA 3120 B (ICP), 21st edition	Max 40	3.73
Styrene	mg/l	USEPA 8260 C	Max 0.02	N.D (<0.005)
Sulphate (SO4)	mg/l	HACH SulfaVer 4 Method	Max 50	15
Zinc (as Zn)	mg/l	APHA 3120 B (ICP), 21st edition	Max 0.6	0.09
Coliform	MPN/100ml	APHA 9221 B	Max 10	N.D
E.coli	MPN/100ml	APHA 9221 F	Absent	N.D
Fecal Coliform	MPN/100ml	APHA 9221 E	Absent	N.D
Sulphite Reducing Anaerobes	cfu/100ml	ISO 6461/2: 1986 (Membrane Filtration)	Absent	N.D
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