

Parent Company: [REDACTED]
 Report Date: 09-Jul-2018
 ZDHCID: A742AM37

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DETAILED PERFORMANCE BREAKDOWN

The section below shows the detailed results from your Laboratory test report in context with the ZDHC Wastewater guidelines and scoring methodology.



	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER
Conventional Legend: Aspirational (Blue) Progressive (Brown) Foundational (Dark Grey) Alert (Red) Not Analysed (White)		NOT ANALYSED		
MRSL Legend: Meets Requirements (Blue) Doesn't Meet Requirements (Dark Grey) Not Analysed (White)		NOT ANALYSED		

CHEMICAL NAME	UNIT	UNIT	UNIT	UNIT	STANDARD TEST METHODS
	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER	
Anions					
Cyanide	NA		ND	ND	-
Sulfide	NA		NA	ND	-
Sulfite	NA		NA	ND	-
Conventional Parameters					
Ammonium-N	NA		NA	ND	-
AOX	NA		NA	ND	-
BOD5	NA		NA	18.000000	mg/l
COD	NA		NA	57.000000	mg/l
Coliform	NA		NA	>1600.000000	bacteria/100 ml
Colour	NA		NA	2.9; 1.4; 0.5	m ¹ (436nm; 525nm; 620nm)
Oil and Grease	NA		NA	ND	-
Persistent Foam				Not Visible	-
pH	NA		NA	7.7	-
Phenol	NA		NA	ND	-
Temperature	NA		NA	27.000000	C
Total-N	NA		NA	ND	-
Total-P	NA		NA	0.250000	mg/l
TSS	NA		NA	ND	-

	INCOMING WATER		RAW WASTEWATER		SLUDGE		TREATED WASTEWATER		
Metals									
Antimony	0.026900	mg/l			NA		0.614800	mg/l	-
Arsenic	ND				6.400000	mg/l	0.002500	mg/l	-
Cadmium	ND				ND		ND		-
Chromium (VI)	ND				ND		ND		-
Chromium, total	0.002200	mg/l			NA		0.017100	mg/l	-
Cobalt	ND				NA		0.008600	mg/l	-
Copper	0.003900	mg/l			NA		0.010900	mg/l	-
Lead	0.004000	mg/l			5.300000	mg/l	0.004400	mg/l	-
Mercury	ND				0.280000	mg/l	ND		-
Nickel	0.005100	mg/l			NA		0.008700	mg/l	-
Silver	ND				NA		ND		-
Zinc	ND				NA		ND		-
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers									
Nonylphenol (NP), mixedisomers	NA				ND		ND		-
Nonylphenol ethoxylates (NPEO)	NA				ND		ND		-
Octylphenol (OP), mixedisomers	NA				ND		ND		-
Octylphenol ethoxylates (OPEO)	NA				ND		ND		-
Flame Retardants									
2,2-bis(bromomethyl)-1,3-propane diol (BBMP)	NA				ND		ND		-
Bis(2,3-dibromopropyl)phosphate (BIS)	NA				ND		ND		-
Decabromodiphenyl ether (DecaBDE)	NA				ND		ND		-
Hexabromocyclododecane (HBCDD)	NA				ND		ND		-
Octabromodiphenyl ether (OctaBDE)	NA				ND		ND		-
Pentabromodiphenyl ether (PentaBDE)	NA				ND		ND		-
Polybromobiphenyls (PBB)	NA				ND		ND		-
Short-chainchlorinated Paraffins (SCCP) (C10-C13)	NA				ND		ND		-
Tetrabromobisphenol A(TBBPA)	NA				ND		ND		-
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	NA				ND		ND		-
Tris(1-aziridinyl)phosphine oxide (TEPA)	NA				ND		ND		-
Tris(2,3-dibromopropyl)-phosphate (TRIS)	NA				ND		ND		-
Tris(2-chloroethyl)phosphate (TCEP)	NA				ND		ND		-
Organotin Compounds									
Dibutyltin (DBT)	NA				ND		ND		-
Mono-, di- andtri-butyltin derivatives	NA				ND		ND		-
Mono-, di- andtri-methyltin derivatives	NA				ND		ND		-
Mono-, di- andtri-octyltin derivatives	NA				ND		ND		-
Mono-, di- andtri-phenyltin derivatives	NA				ND		ND		-
Perfluorinated and Polyfluorinated Chemicals (PFCs)									
6:2 FTOH	NA				ND		ND		-
8:2 FTOH	NA				ND		ND		-
PFBS	NA				ND		ND		-
PFHxA	NA				ND		ND		-
PFOA	NA				ND		ND		-
PFOS	NA				ND		ND		-

	INCOMING WATER		RAW WASTEWATER		SLUDGE		TREATED WASTEWATER		
Chlorophenols									
2,3,4,5-tetrachlorophenol	ND				ND		ND		-
2,3,4,6-tetrachlorophenol	ND				ND		ND		-
2,3,4-trichlorophenol	ND				ND		ND		-
2,3,5,6-tetrachlorophenol	ND				ND		ND		-
2,3,5-trichlorophenol	ND				ND		ND		-
2,3,6-trichlorophenol	ND				ND		ND		-
2,3-dichlorophenol	ND				ND		ND		-
2,4,5-trichlorophenol	ND				ND		ND		-
2,4,6-trichlorophenol	ND				ND		ND		-
2,4-dichlorophenol	ND				ND		ND		-
2,5-dichlorophenol	ND				ND		ND		-
2,6-dichlorophenol	ND				ND		ND		-
2-chlorophenol	ND				ND		ND		-
3,4,5-trichlorophenol	ND				ND		ND		-
3,4-dichlorophenol	ND				ND		ND		-
3,5-dichlorophenol	ND				ND		ND		-
3-chlorophenol	ND				ND		ND		-
4-chlorophenol	ND				ND		ND		-
Pentachlorophenol	3.510000	µg/l			ND		5.400000	µg/l	-
Tetrachlorophenol (TeCP)	ND				ND		ND		-
Dyes - Azo (Forming Restricted Amines)									
2,4,5-trimethylaniline	NA				ND		ND		-
2,4-xylydine	NA				ND		ND		-
2,6-xylydine	NA				ND		ND		-
2-naphthylamine	NA				ND		ND		-
3,3'-dichlorobenzidine	NA				ND		ND		-
3,3'-dimethoxybenzidine	NA				ND		ND		-
3,3'-dimethylbenzidine	NA				ND		ND		-
3,3'-dichlorobenzidine	NA				ND		ND		-
4,4'-methylene-bis-(2-chloro-aniline)	NA				ND		ND		-
4,4'-methylenedi-o-toluidine	NA				ND		ND		-
4,4'-methylenedianiline	NA				ND		ND		-
4,4'-oxydianiline	NA				ND		ND		-
4,4'-thiodianiline	NA				ND		ND		-
4-aminoazobenzene	NA				ND		ND		-
4-aminodiphenyl	NA				ND		ND		-
4-chloro-o-toluidine	NA				ND		ND		-
4-chloroaniline	NA				ND		ND		-
4-methoxy-m-phenylenediamine	NA				ND		ND		-
4-methyl-m-phenylenediamine	NA				ND		ND		-
5-nitro-o-toluidine	NA				ND		ND		-
6-methoxy-m-toluidine	NA				ND		ND		-
Benzidine	NA				ND		ND		-
o-aminoazotoluene	NA				ND		ND		-
o-anisidine	NA				ND		ND		-
o-toluidine	NA				ND		ND		-

	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER	
Dyes - Carcinogenic					
C.I. Acid Red 26	NA		ND	ND	-
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	NA		ND	ND	-
C.I. Basic Green 4 (malachite greenchloride)	NA		ND	ND	-
C.I. Basic Green 4 (malachite greenoxalate)	NA		ND	ND	-
C.I. Basic Green 4 (malachite green)	NA		ND	ND	-
C.I. Basic Red 9	NA		ND	ND	-
C.I. Basic Violet 14	NA		ND	ND	-
C.I. Direct Black 38	NA		ND	ND	-
C.I. Direct Blue 6	NA		ND	ND	-
C.I. Direct Red 28	NA		ND	ND	-
C.I. Disperse Blue 1	NA		ND	ND	-
C.I. Disperse Blue 3	NA		ND	ND	-
Disperse Orange 11	NA		ND	ND	-
Dyes - Disperse (Sensitizing)					
Disperse Blue 102	NA		ND	ND	-
Disperse Blue 106	NA		ND	ND	-
Disperse Blue 124	NA		ND	ND	-
Disperse Blue 26	NA		ND	ND	-
Disperse Blue 35	NA		ND	ND	-
Disperse Blue 7	NA		ND	ND	-
Disperse Brown 1	NA		ND	ND	-
Disperse Orange 1	NA		ND	ND	-
Disperse Orange 3	NA		ND	ND	-
Disperse Orange 37/59/76	NA		ND	ND	-
Disperse Red 1	NA		ND	ND	-
Disperse Red 11	NA		ND	ND	-
Disperse Red 17	NA		ND	ND	-
Disperse Yellow 1	NA		ND	ND	-
Disperse Yellow 3	NA		ND	ND	-
Disperse Yellow 39	NA		ND	ND	-
Disperse Yellow 49	NA		ND	ND	-
Disperse Yellow 9	NA		ND	ND	-
Halogenated Solvents					
1,2-dichloroethane	NA		ND	ND	-
Methylene chloride	NA		ND	ND	-
Tetrachloroethylene	NA		ND	ND	-
Trichloroethylene	NA		ND	ND	-

	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER	
Chlorobenzenes and Chlorotoluenes					
1,2,3,4-Tetrachlorobenzene	NA		ND	ND	-
1,2,3,5-Tetrachlorobenzene	NA		ND	ND	-
1,2,3-Trichlorobenzene	NA		ND	ND	-
1,2,4,5-Tetrachlorobenzene	NA		ND	ND	-
1,2,4-Trichlorobenzene	NA		ND	ND	-
1,2-Dichlorobenzene	NA		ND	ND	-
1,3,5-Trichlorobenzene	NA		ND	ND	-
1,3-Dichlorobenzene	NA		ND	ND	-
1,4-Dichlorobenzene	NA		ND	ND	-
2,3,4,5-Tetrachlorotoluene	NA		ND	ND	-
2,3,4,6-Tetrachlorotoluene	NA		ND	ND	-
2,3,4-Trichlorotoluene	NA		ND	ND	-
2,3,5,6-Tetrachlorotoluene	NA		ND	ND	-
2,3,6-Trichlorotoluene	NA		ND	ND	-
2,3-Dichlorotoluene	NA		ND	ND	-
2,4,5-Trichlorotoluene	NA		ND	ND	-
2,4,6-Trichlorotoluene	NA		ND	ND	-
2,4-Dichlorotoluene	NA		ND	ND	-
2,5-Dichlorotoluene	NA		ND	ND	-
2,6-Dichlorotoluene	NA		ND	ND	-
2-Chlorotoluene	NA		ND	ND	-
3,4,5-Trichlorotoluene	NA		ND	ND	-
3,4-Dichlorotoluene	NA		ND	ND	-
3,5-Dichlorotoluene	NA		ND	ND	-
3-Chlorotoluene	NA		ND	ND	-
4-Chlorotoluene	NA		ND	ND	-
Alpha, alpha, alpha, 4-tetrachlorotoluene	NA		ND	ND	-
Alpha, alpha, alpha, 2,6-tetrachlorotoluene	NA		ND	ND	-
Alpha, alpha, 2,6-tetrachlorotoluene	NA		ND	ND	-
Alpha, 2,4-Trichlorotoluene	NA		ND	ND	-
Alpha, 2,6-Trichlorotoluene	NA		ND	ND	-
Alpha, 3,4-Trichlorotoluene	NA		ND	ND	-
Hexachlorobenzene	NA		ND	ND	-
Monochlorobenzene	NA		ND	ND	-
Pentachlorobenzene	NA		ND	ND	-
Pentachlorotoluene	NA		ND	ND	-
Glycols					
2-ethoxyethanol	NA		ND	ND	-
2-ethoxyethyl acetate	NA		ND	ND	-
2-methoxyethanol	NA		ND	ND	-
2-methoxyethylacetate	NA		ND	ND	-
2-methoxypropylacetate	NA		ND	ND	-
Bis(2-methoxyethyl)-ether	NA		ND	ND	-
Ethylene glycol dimethyl ether	NA		ND	ND	-
Triethylene glycol dimethyl ether	NA		ND	ND	-

	INCOMING WATER	RAW WASTEWATER	SLUDGE	TREATED WASTEWATER
Otho-Phthalates - Including all ortho esters of phthalic acid				
1,2-benzenedicarboxylic acid, di-C6-8-branchedalkyl esters, C7-rich (DHP)	NA		ND	-
1,2-benzenedicarboxylic acid, di-C7-11-branchedandlinear alkyl esters (DHNUP)	NA		ND	-
Bis(2-methoxyethyl) phthalate (DMEP)	NA		ND	-
Butyl benzyl phthalate (BBP)	NA		ND	-
Di(ethylhexyl) phthalate (DEHP)	NA		ND	-
Di-cyclohexyl phthalate (DCHP)	NA		ND	-
Di-iso-decyl phthalate (DIDP)	NA		ND	-
Di-iso-octyl phthalate (DIOP)	NA		ND	-
Di-isobutyl phthalate (DIBP)	NA		ND	-
Di-isononyl phthalate (DINP)	NA		ND	-
Di-n-hexyl phthalate (DnHP)	NA		ND	-
Di-n-octyl phthalate (DNOP)	NA		ND	-
Di-n-propyl phthalate (DPRP)	NA		ND	-
Dibutyl phthalate (DBP)	NA		ND	-
Diethyl phthalate (DEP)	NA		ND	-
Dinonyl phthalate (DNP)	NA		ND	-
Polycyclic Aromatic Hydrocarbons (PAHs)				
Acenaphthene	NA		ND	-
Acenaphthylene	NA		ND	-
Anthracene	NA		ND	-
Benzo[a]anthracene	NA		ND	-
Benzo[a]pyrene (BaP)	NA		ND	-
Benzo[b]fluoranthene	NA		ND	-
Benzo[e]pyrene	NA		ND	-
Benzo[ghi]perylene	NA		ND	-
Benzo[j]fluoranthene	NA		ND	-
Benzo[k]fluoranthene	NA		ND	-
Chrysene	NA		ND	-
Dibenz[a,h]anthracene	NA		ND	-
Fluoranthene	NA		ND	-
Fluorene	NA		ND	-
Indeno[1,2,3-cd]pyrene	NA		ND	-
Naphthalene	NA		ND	-
Phenanthrene	NA		ND	-
Pyrene	NA		ND	-
Volatile Organic Compounds (VOC)				
Benzene	NA		ND	-
m-Cresol	NA		ND	-
o-Cresol	NA		ND	-
p-Cresol	NA		ND	-
Xylene	NA		ND	-

SAMPLE INFORMATION

The section below summarises the information regarding the samples and the testing laboratory.

SAMPLE DETAILS		LABORATORY DETAILS	
SampleCollection	01-Feb-2018	Laboratory	Intertek Testing Services Taiwan Ltd
DurationDate	02-Mar-2018 01-Mar-2019	Lab Test Reference	TWNC00664917
ZDHC Test ID	TR641MO84	ZDHC Lab Status	PROVISIONALLY ACCEPTED(19-OCT-2017)
Sample Notes		Address	8F, No. 423 Ruiguang Rd., Neihu Dist. Taipei 11492 Neihu Taipei Taiwan
		Contact Name	Josephine Chang
		Contact E-mail	josephine.chang@intertek.com