LAB REPORT

Report Number	(9324)086-1109		
Date of sampling	March 27, 2024		
Reporting Date	April 8, 2024		
Factory Company Name	Foshan Lisheng Textile Company Limited		
Factory Address	Dalang Nanbian, Shaying Baidong, XiqiaoTechnical Industrial Part, Nanhai, Foshan City, Guangdong Province,China		
Discharge Type	Indirect Discharge without Pretreatment		
Discharge Destination Name & Address	Discharge to Foshan City Nanhai Area Xinlong Wushui Chulichang		
Average total industrial wastewater generated	Equal or more than 15m^3 per day	**Manufacturing Process Type**	Textile
Onsite ETP / Pretreatment	No	**Homogenization Tank & Holding Time**	Yes (untreated), >12 hours
ZDHC Sampler ID	C74D106817263		
Sample Type & Description & Sampling Method	Untreated wastewater	l001, dark blue liquid, composite sample at 10:24, 11:19, 12:13, 13:07, 14:02, 14:57, 15:52	

Local Legal Data / Contractual agree by CETP Data	
Local Legal Standard Name / Name of Contractual agree by CETP[a]	Discharge standards of water pollutants for dyeing and finishing of textile industry
Standard Number	GB 4287-2012
Parameters (ZDHC WWG V2.1, Table 2 & 3) exceeded local legal standard / contractual agree by CETP standard	No exceeded
Discharge permit provided	Yes

Result Overview			
Wastewater Overall Result (ZDHC WWG V2.1, Table 1)	Not detected		
Wastewater Overall Result (ZDHC WWG V2.1, Table 2 & 3)	Not applicable		
Sludge Disposal Pathway	-	**Sludge Overall Result**	-

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Report Number (9324)086-1109

Internal Description			
Sample reference number	(9324)086-1109		
Date & time of the beginning of sampling	March 27, 2024	,	10:24
Date & time of the end of sampling	March 27, 2024	,	15:52
Sample received date	March 27, 2024		
Testing period	March 27, 2024	to	April 8, 2024
Arrival temperature at laboratory	5.9 °C		
Comments	Samples received within holding time and temperature.		

The results of this report shall not be used for any regulatory compliance purposes. The sampling is agreed with client.
If there are questions or concerns on this report, please contact the following persons:

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Report reviewed by

Andy Wang, Manager

Report approved by

Nina Ren, Senior Manager

Wastewater Result Summary - ZDHC MRSL Parameters

ZDHC MRSL Wastewater	Untreated I001		
1A) AP and APEOs: including all isomers	ND		
1B) Anti-Microbials & Biocides	ND		
1C) Chlorinated Parafins	ND		
1D) Chlorobenzenes and Chlorotoluenes	ND		
1E) Chlorophenols	ND		
1F) DMFa	ND		
1G) Dyes - Carcinogenic or Equivalent Concern	ND		
1H) Dyes - Disperse (Sensitising)	ND		
1I) Dyes - Navy Blue Colourant	ND		
1J) Flame Retardants	ND		
1K) Glycols / Glycol Ethers	ND		
1L) Halogenated Solvents	ND		
1M) Organotin Compounds	ND		
1N) Other / Miscellaneous Chemicals	ND		
1O) PFCs	ND		
1P) Phthalates	ND		
1Q) PAHs	ND		
1R) Restricted Aromatic Amines	ND		
1S) UV Absorbers	ND		
1T) VOC	ND		

Wastewater Result Summary - ZDHC Heavy Metals Parameters

ZDHC Heavy Metals Wastewater	Untreated I001		
Antimony	NA		
Chromium (VI)	DATA		
Barium	NA		
Selenium	NA		
Tin	NA		
Arsenic	DATA		
Total Chromium	NA		
Cobalt	NA		
Cadmium	DATA		
Copper	NA		
Lead	DATA		
Nickel	NA		
Silver	NA		
Zinc	NA		
Mercury	DATA		

Wastewater Result Summary - ZDHC Conventional and Anions Parameters

ZDHC Conventional and Anions Wastewater	Effluent		
pH[f]	NA		
Temperature difference[f]	NA		
E.coli	NA		
Colour	NA		
Persistent foam[f]	NA		
Wastewater flowrate[f]	NA		
Ammonium-Nitrogen	NA		
AOX	NA		
Biochemical Oxygen Demand (BOD_5)	NA		
Chemical Oxygen Demand (COD)	NA		
Dissolved Oxygen (DO)[f]	NA		
Oil & Grease	NA		
Total Phenols / Phenol Index	NA		
Total Chlorine[f]	NA		
Total Dissolved Solids (TDS)	NA		
Total Nitrogen	NA		
Total Phosphorus	NA		
Total Suspended Solids (TSS)	NA		
Chloride	NA		
Cyanide, total	NA		
Sulfate	NA		
Sulfide	NA		
Sulfite	NA		

Report Number (9324)086-1109

Sludge Result Summary - ZDHC Sludge Parameters

Sludge Parameters	Sludge		
Antimony	NA		
Arsenic	NA		
Barium	NA		
Cadmium	NA		
Cobalt	NA		
Copper	NA		
Lead	NA		
Nickel	NA		
Selenium	NA		
Silver	NA		
Total Chromium	NA		
Zinc	NA		
Chromium (VI)	NA		
Mercury	NA		
pH	NA		
% Solids	NA		
Paint Filter Test	NA		
Fecal Coliform	NA		
AP and APEOs: including all isomers	NA		
Polycyclic Aromatic Hydrocarbons (PAHs)	NA		
Chlorotoluenes	NA		
Cyanide	NA		

Sludge flux and/or sludge flow data: NA

Note / Key:

ND	=	Not detected (less than reporting limit)	NA	=	Not applicable
D	=	Detected	-	=	Did not perform
MEET	=	Meet ZDHC Wastewater Guidelines Requirements	[f]	=	Parameter tested in field
NOT MEET	=	Not Meet ZDHC Wastewater Guidelines Requirements			
DATA	=	Report only, refer data			
(T)	=	Handling temperature exceeded			
@	=	Maximum holding time exceeded			
[a]	=	The local legal standard name and number are referenced to discharge permit (or contractual agree by CETP) that provided by company			
(S)	=	Analysis was subcontracted for testing			
*	=	See remark			

Wastewater Test Result - ZDHC MRSL

1A) AP and APEOs: including all isomers

ISO 18857-2, ASTM D7065

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	5	ND			µg/L
NP, mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3	5	ND			µg/L
OPEO	9002-93-1, 9036-19-5, 68987-90-6	5	ND			µg/L
OP, mixed isomers	140-66-9, 1806-26-4, 27193-28-8	5	ND			µg/L

1B) Anti-Microbials & Biocides

EPA 3510C:1996, EPA 8270E:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
o-Phenylphenol (+salts)	90-43-7	100	ND			µg/L
Triclosan	3380-34-5	100	ND			µg/L
Permethrin	Multiple	500	ND			µg/L

1C) Chlorinated Parafins

EPA 3510C:1996, ISO 18219-2:2021, ISO 12010:2019

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
MCCPs (C14-C17)	85535-85-9	500	ND			µg/L
SCCPs (C10-C13)	85535-84-8	25	ND			µg/L

1D) Chlorobenzenes and Chlorotoluenes

EPA 8270E:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-dichlorobenzene	95-50-1	0.2	ND			µg/L
Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa-chlorobenzene and mono-, di-, tri-, tetra-, and penta- chlorotoluene	Multiple	0.2	ND			µg/L

1E) Chlorophenols

USEPA 8270E, BS EN 12673-1999

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-chlorophenol	95-57-8	0.5	ND			µg/L
3-chlorophenol	108-43-0	0.5	ND			µg/L
4-chlorophenol	106-48-9	0.5	ND			µg/L
2,3-dichlorophenol	576-24-9	0.5	ND			µg/L
2,4-dichlorophenol	120-83-2	0.5	ND			µg/L
2,5-dichlorophenol	583-78-8	0.5	ND			µg/L
2,6-dichlorophenol	87-65-0	0.5	ND			µg/L
3,4-dichlorophenol	95-77-2	0.5	ND			µg/L
3,5-dichlorophenol	591-35-5	0.5	ND			µg/L
2,3,4-trichlorophenol	15950-66-0	0.5	ND			µg/L
2,3,5-trichlorophenol	933-78-8	0.5	ND			µg/L
2,3,6-trichlorophenol	933-75-5	0.5	ND			µg/L
2,4,5-trichlorophenol	95-95-4	0.5	ND			µg/L
2,4,6-trichlorophenol	88-06-2	0.5	ND			µg/L
3,4,5-trichlorophenol	609-19-8	0.5	ND			µg/L
2,3,5,6-tetrachlorophenol	935-95-5	0.5	ND			µg/L
2,3,4,6-tetrachlorophenol	58-90-2	0.5	ND			µg/L
2,3,4,5-tetrachlorophenol	4901-51-3	0.5	ND			µg/L
Pentachlorophenol (PCP)	87-86-5	0.5	ND			µg/L

1F) N,N-di-methylformamide (DMFa)

EPA 8015, EPA 8270E:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Dimethyl formamide; N,N-dimethylformamide (DMFa)[a]	68-12-2	1000	ND			µg/L

1G) Dyes - Carcinogenic or Equivalent Concern

EPA 8321B:2007

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	500	ND			µg/L
C.I. Acid Red 26	3761-53-3	500	ND			µg/L
C.I. Acid Violet 49	1694-09-3	500	ND			µg/L
C.I. Basic Blue 26 (with Michler's Ketone >0/1%)	2580-56-5	500	ND			µg/L
C.I. Basic Green 4 (Malachite Green Chloride)	569-64-2	500	ND			µg/L

1G) Dyes - Carcinogenic or Equivalent Concern (continued)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
C.I. Basic Green 4 (Malachite Green Oxalate)	2437-29-8	500	ND			µg/L
C.I. Basic Green 4 (Malachite Green)	10309-95-2	500	ND			µg/L
C.I. Basic Red 9	569-61-9	500	ND			µg/L
C.I. Basic Violet 14	632-99-5	500	ND			µg/L
C.I. Direct Black 38	1937-37-7	500	ND			µg/L
C.I. Direct Blue 6	2602-46-2	500	ND			µg/L
C.I. Direct Red 28	573-58-0	500	ND			µg/L
C.I. Disperse Blue 1	2475-45-8	500	ND			µg/L
C.I. Disperse Blue 3	2475-46-9	500	ND			µg/L
Disperse Orange 11	82-28-0	500	ND			µg/L

1H) Dyes - Disperse (Allergenic)

EPA 8321B:2007

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Disperse Blue 102	12222-97-8	50	ND			µg/L
Disperse Blue 106	12223-01-7	50	ND			µg/L
Disperse Blue 124	61951-51-7	50	ND			µg/L
Disperse Blue 26	3860-63-7	50	ND			µg/L
Disperse Blue 35 (CAS 12222-75-2)	12222-75-2	50	ND			µg/L
Disperse Blue 35 (CAS 56524-77-7)	56524-77-7	50	ND			µg/L
Disperse Blue 7	3179-90-6	50	ND			µg/L
Disperse Brown 1	23355-64-8	50	ND			µg/L
Disperse Orange 1	2581-69-3	50	ND			µg/L
Disperse Orange 3	730-40-5	50	ND			µg/L
Disperse Orange 37/59/76	13301-61-6	50	ND			µg/L
Disperse Red 1	2872-52-8	50	ND			µg/L
Disperse Red 11	2872-48-2	50	ND			µg/L
Disperse Red 17	3179-89-3	50	ND			µg/L
Disperse Yellow 1	119-15-3	50	ND			µg/L
Disperse Yellow 3	2832-40-8	50	ND			µg/L
Disperse Yellow 39	12236-29-2	50	ND			µg/L
Disperse Yellow 49	54824-37-2	50	ND			µg/L
Disperse Yellow 9	6373-73-5	50	ND			µg/L

1I) Dyes - Navy Blue Colourant

EPA 8321B:2007

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Component 1: C39H23Cl-CrN7O12S 2Na	118685-33-9	500	ND			µg/L
Component 2: C46H-30CrN10O20S2 3Na	Not allocated	500	ND			µg/L

1J) Flame Retardants

USEPA 8270, ISO 22032, USEPA 527 and USEPA 8321B, EPA 3015A:2007, EPA 6020B:2014

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND			µg/L
Dis(2,3-dibromopropyl) phosphate (BIS)	5412-25-9	25	ND			µg/L
Decabromophenyl ether (DecaBDE)	1163-19-5	25	ND			µg/L
Hexabromocyclodecane (HBCDD)	3194-55-6	25	ND			µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND			µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND			µg/L
Polybromobiphenyls (PBB)	59536-65-1	25	ND			µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND			µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND			µg/L
Tris(1-aziridinyl)phosphone oxide (TEPA)	545-55-1	25	ND			µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND			µg/L
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	25	ND			µg/L
Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	25	ND			µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND			µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND			µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND			µg/L
Dibromopropylether	21850-44-2	25	ND			µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND			µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND			µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND			µg/L

1J) Flame Retardants (continued)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND			µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND			µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND			µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND			µg/L
Tribromophenylethers (TriBDEs)	Multiple	25	ND			µg/L
Boric acid[b]	10043-35-3, 11113-50-1	100	ND			µg/L
Diboron trioxide[b]	1303-86-2	100	ND			µg/L
Disodium octaborate[b]	12008-41-2	100	ND			µg/L
Disodium tetraborate anhydrous[b]	1303-96-4, 1330-43-4	100	ND			µg/L
Tetraboron disodium heptaoxide, hydrate[b]	12267-73-1	100	ND			µg/L

1K) Glycols / Glycol Ethers

EPA 8270E:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-ethoxyethanol	110-80-5	50	ND			µg/L
2-ethoxyethyl acetate	111-15-9	50	ND			µg/L
2-methoxyethanol	109-86-4	50	ND			µg/L
2-methoxyethylacetate	110-49-6	50	ND			µg/L
2-methyloxypropylacetate	70657-70-4	50	ND			µg/L
Bis(2-methoxyethyl)-ether	111-96-6	50	ND			µg/L
Ethylene glycol dimethyl ether	110-71-4	50	ND			µg/L
Triethylene glycol dimethyl ether	112-49-2	50	ND			µg/L

1L) Halogenated Solvents

EPA 8260D:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-dichloroethane	107-06-2	1	ND			µg/L
Methylene chloride	75-09-2	1	ND			µg/L
Tetrachloroethylene	127-18-4	1	ND			µg/L
Trichloroethylene	79-01-6	1	ND			µg/L

1M) Organotin Compounds

ISO 17353

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Dipropyltin compounds (DPT)	Multiple	0.01	ND			µg/L
Mono, di-, and tri-butyltin derivatives	Multiple	0.01	ND			µg/L
Mono, di-, and tri-methyltin derivatives	Multiple	0.01	ND			µg/L
Mono, di-, and tri-octyltin derivatives	Multiple	0.01	ND			µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple	0.01	ND			µg/L
Tetrabutyltin componuds (TeBT)	Multiple	0.01	ND			µg/L
Tripropyltin compounds (TPT)	Multiple	0.01	ND			µg/L
Tetraoctyltin compounds (TeOT)	Multiple	0.01	ND			µg/L
Tricyclohexyltin (TCyHT)	Multiple	0.01	ND			µg/L
Tetraethyltin compounds (TeET)	Multiple	0.01	ND			µg/L

1N) Other / Miscellaneous Chemicals

EPA 3510C:1996, EPA 8321B:2007

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND			µg/L
Bisphenol A	80-05-7	10	ND			µg/L
Thiourea	62-56-6	50	ND			µg/L
Quinoline	91-22-5	50	ND			µg/L
Borate - Borate, zinc salt[c]	12767-90-7	100	ND			µg/L
Zinc salt - Borate ,zinc salt[c]		100	ND			µg/L
Silica (used in sand blasting)[d]	14464-46-1	-	NA			µg/L

1O) Perfluorinated and Polyfluorinated Chemicals (PFCs)

EPA 537:2020, FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS, FTOH: GC-MS derivatisation with acetic

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	0.01	ND			µg/L
Perfluorooctanoic acid (PFOA) related substances	Multiple	1	ND			µg/L

1P) Phthalates - including all other esters of ortho-phthalic acid

USEPA 8270E, ISO 18856, EPA 3510C:1996, EPA 8270E:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-benzenedicarboxylic acid, di-C6-8 branched and liearalkyl esters , C7-rich (DIHP)	71888-89-6, 84777-06-0	10	ND			µg/L
1,2-benzenedicarboxylic acid, di-C7-11 branched and liearalkyl esters (DHNUP)	68515-42-4, 68515-50-4	10	ND			µg/L
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	10	ND			µg/L
Butyl benzyl phthalate (BBP)	85-68-7	10	ND			µg/L
Di-cyclohexyl phthalate (DCHP)	84-61-7	10	ND			µg/L
Di-iso-decyl phthalate (DIDP)	26761-40-0	10	ND			µg/L
Di-iso-octyl phthalate (DIOP)	27554-26-3	10	ND			µg/L
Di-iso-butyl phthalate (DIBP)	84-69-5	10	ND			µg/L
Di-iso-nonyl phthalate (DINP)	28553-12-0	10	ND			µg/L
Di-n-hexyl phthalate (DnHP)	84-75-3	10	ND			µg/L
Di-n-octyl phthalate (DNOP)	117-84-0	10	ND			µg/L
Di-n-pentylphthalates	131-18-0	10	ND			µg/L
Di-n-propyl phthalate (DPRP)	131-16-8	10	ND			µg/L
Di(ethylhexyl) phthalate (DEHP)	117-81-7	10	ND			µg/L
Dibutyl phthalate (DBP)	84-74-2	10	ND			µg/L
Diethyl phthalate (DEP)	84-66-2	10	ND			µg/L
Diisopentylphthalates	605-50-5	10	ND			µg/L
Dinonyl phthalate (DNP)	84-76-4	10	ND			µg/L

1Q) Polycyclic Aromatic Hydrocarbons (PAHs)

USEPA 8270E DIN 38407-39

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Acenaphthene	83-32-9	1	ND			µg/L
Acenaphthylene	208-96-8	1	ND			µg/L
Anthracene	120-12-7	1	ND			µg/L
Benzo[a]anthracene	56-55-3	1	ND			µg/L
Benzo[a]pyrene (BaP)	50-32-8	1	ND			µg/L
Benzo[b]fluoranthene	205-99-2	1	ND			µg/L
Benzo[e]pyrene	192-97-2	1	ND			µg/L
Benzo[ghi]perylene	191-24-2	1	ND			µg/L
Benzo[j]fluoranthene	205-82-3	1	ND			µg/L
Benzo[k]fluoranthene	207-08-9	1	ND			µg/L
Chrysene	218-01-9	1	ND			µg/L
Dibenz[a,h]anthracene	53-70-3	1	ND			µg/L

1Q) Polycyclic Aromatic Hydrocarbons (PAHs) (continued)

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Fluoranthene	206-44-0	1	ND			µg/L
Fluorene	86-73-7	1	ND			µg/L
Indeno[1,2,3-cd]pyrene	193-39-5	1	ND			µg/L
Naphthalene	91-20-3	1	ND			µg/L
Phenanthrene	85-01-8	1	ND			µg/L
Pyrene	129-00-0	1	ND			µg/L

1R) Restricted Aromatic Amines (Cleavable from Azo-colourants)

EPA 3510C:1996 , EPA 8270E:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-naphthylamine	91-59-8	0.1	ND			µg/L
2-naphthylammoniumacetate	553-00-4	0.1	ND			µg/L
2,4-xylidine	95-68-1	0.1	ND			µg/L
2,4,5-trimethylaniline	137-17-7	0.1	ND			µg/L
2,4,5-trimethylaniline hydrochloride	21436-97-5	0.1	ND			µg/L
2,6-xylidine	87-62-7	0.1	ND			µg/L
3,3'-dichlorobenzidine	91-94-1	0.1	ND			µg/L
3,3-dimethoxylbenzidine	119-90-4	0.1	ND			µg/L
3,3-dimethylbenzidine	119-93-7	0.1	ND			µg/L
4-aminoazobenzene	60-09-3	0.1	ND			µg/L
4-aminodiphenyl	92-67-1	0.1	ND			µg/L
4-chloro-o-toluidine	95-69-2	0.1	ND			µg/L
4-chloro-o-toluidinium chloride	3165-93-3	0.1	ND			µg/L
4-chloroaniline	106-47-8	0.1	ND			µg/L
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	0.1	ND			µg/L
4-methoxy-m-phenylenediamine	615-05-4	0.1	ND			µg/L
4-methyl-m-phenylenediamine	95-80-7	0.1	ND			µg/L
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	0.1	ND			µg/L
4,4-methylenedi-o-toluidine	838-88-0	0.1	ND			µg/L
4,4-methylenedianiline	101-77-9	0.1	ND			µg/L
4,4-oxydianiline	101-80-4	0.1	ND			µg/L
4,4-thiodianiline	139-65-1	0.1	ND			µg/L
5-nitro-o-toluidine	99-55-8	0.1	ND			µg/L
6-methoxy-m-toluidine	120-71-8	0.1	ND			µg/L
Benzidine	92-87-5	0.1	ND			µg/L
o-aminoazotoluene	97-56-3	0.1	ND			µg/L
o-anisidine	90-04-0	0.1	ND			µg/L
o-toluidine	95-53-4	0.1	ND			µg/L

1S) UV Absorbers

EPA 3510C:1996 , EPA 8270E:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec- butyl) phenol (UV-350)	36437-37-3	100	ND			µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND			µg/L
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	100	ND			µg/L
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	100	ND			µg/L

1T) Volatile Organic Compounds (VOC)

EPA 8260D:2018

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
Benzene	71-43-2	1	ND			µg/L
m-cresol	108-39-4	1	ND			µg/L
o-cresol	95-48-7	1	ND			µg/L
p-cresol	106-44-5	1	ND			µg/L
Xylene	1330-20-7	1	ND			µg/L
Toluene[a]	108-88-3	1	ND			µg/L

Note / Key:

a = Sample and report only for mock leather.
b = Limit refers to elemental boron, not the salt.
c = Limit refers to boron and zinc individually, not the salt.
d = Not required to test this parameter as this related to sand blasting.

Report Number (9324)086-1109

Wastewater Test Result - ZDHC Heavy Metals

Wastewater - ZDHC Heavy Metals

EPA 3015A:2007, EPA 6020B:2014, ISO 11885:2007, GB/T 7467-1987

Test Parameters	Reporting limit & LOQ	Limit				Result of Test Items			Unit
		Foundational	Progressive	Aspirational	Local Legal Standard / Contractual agree with CETP Standard	Untreated I001			
Antimony	0.01	0.1	0.05	0.01	-	NA			mg/L
Chromium (VI)	0.001	0.05	0.005	0.001	-	ND			mg/L
Barium	1	Sample & Report			-	NA			mg/L
Selenium	1	Sample & Report			-	NA			mg/L
Tin	1	Sample & Report			-	NA			mg/L
Arsenic	0.005	0.05	0.01	0.005	-	0.006			mg/L
Total Chromium	0.05	0.2	0.1	0.05	-	NA			mg/L
Cobalt	0.01	0.05	0.02	0.01	-	NA			mg/L
Cadmium	0.01	0.1	0.05	0.01	-	ND			mg/L
Copper	0.25	1	0.5	0.25	-	NA			mg/L
Lead	0.01	0.1	0.05	0.01	-	ND			mg/L
Nickel	0.05	0.2	0.1	0.05	-	NA			mg/L
Silver	0.005	0.1	0.050	0.005	-	NA			mg/L
Zinc	0.5	5	1	0.5	-	NA			mg/L
Mercury	0.001	0.010	0.005	0.001	-	ND			mg/L

Report Number (9324)086-1109

Wastewater Test Result - ZDHC Conventional & Anions

Wastewater - ZDHC Conventional

Test Parameters	Test Method	Reporting limit & LOQ	Limit				Result of Test Items		Unit
			Foundational	Progressive	Aspirational	Local Legal Standard / Contractual agree with CETP Standard	Effluent		
pH[f]	HJ 1147-2020	-	6-9	6-9	6-9	-	NA		-
Temperature difference[f]	GB/T 13195-1991	-	15	10	5	-	NA		Δ °C
E.coli	SM 9221B, SM 9221F	126	126	126	126	-	NA		MPN/100-ml
Colour (436 nm)	ISO 7887-B:2011	2	7	5	2	-	NA		m^{-1}
Colour (525 nm)		1	5	3	1	-	NA		m^{-1}
Colour (620 nm)		1	3	2	1	-	NA		m^{-1}
Persistent Foam[f]	Visual	-	No indication of Persistent Foam			-	NA		-
Wastewater Flowrate[f]	-	-	-	-	-	-	NA		m^3/day
Ammonium-Nitrogen	HJ 535-2009	0.5	10	1	0.5	-	NA		mg/L
AOX	HJ/T 83-2001	0.1	3	0.5	0.1	-	NA		mg/L
BOD_5	HJ 505-2009	0.5	30	15	8	-	NA		mg/L
COD	HJ 828-2017	4	150	80	40	-	NA		mg/L
DO[f]	HJ 506-2009	-	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Oil & Grease	HJ 637-2018	0.5	10	2	0.5	-	NA		mg/L
Total Phenols / Phenol Index	HJ 503-2009	0.001	0.5	0.01	0.001	-	NA		mg/L
Total Chlorine[f]	HJ 585-2010, HJ 586-2010	0.1	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
TDS	GB/T 5750.4-2006	5	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Total Nitrogen	HJ 636-2012	5	20	10	5	-	NA		mg/L
Total Phosphorus	GB/T 11893-1989	0.1	3	0.5	0.1	-	NA		mg/L
TSS	GB/T 11901-1989	5	50	15	5	-	NA		mg/L

Wastewater Test Result - ZDHC Conventional & Anions

Wastewater - ZDHC Anions

Test Parameters	Test Method	Reporting limit & LOQ	Limit				Result of Test Items		Unit
			Foundational	Progressive	Aspirational	Local Legal Standard / Contractual agree with CETP Standard	Effluent		
Chloride	HJ 84-2016	0.007	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Cyanide, total	HJ 484-2009	0.05	0.2	0.1	0.05	-	NA		mg/L
Sulfate	HJ 84-2016	0.018	Sample & Report	Sample & Report	Sample & Report	-	NA		mg/L
Sulfide	HJ 1226-2021	0.01	0.5	0.05	0.01	-	NA		mg/L
Sulfite	HJ 84-2016	0.2	2	0.5	0.2	-	NA		mg/L

Sludge Test Result - Metals & Conventional and Anions & MRSL

Sludge - Metals

EPA 3050, EPA 6020B, USEPA 3060a, USEPA 7196

Test Parameters	Sludge Reporting limit & LOQ	Limit			Result of Test Items			Unit
		Total Metals and Anions Threshold Values			Sludge			
Antimony	5	12			NA			mg/kg
Arsenic	5	10			NA			mg/kg
Barium	200	700			NA			mg/kg
Cadmium	1	3			NA			mg/kg
Cobalt	400	1600			NA			mg/kg
Copper	50	200			NA			mg/kg
Lead	5	10			NA			mg/kg
Nickel	20	70			NA			mg/kg
Selenium	5	10			NA			mg/kg
Silver	50	100			NA			mg/kg
Total Chromium	50	100			NA			mg/kg
Zinc	400	1000			NA			mg/kg
Chromium (VI)	20	50			NA			mg/kg
Mercury	1	1			NA			mg/kg

Sludge (Leachate) - Metals

EPA1311-1992 extraction, EPA 3015A:2007, EPA 6020B:2014, ISO 11885:2007, GB/T 7467-1987

Test Parameters	Reporting limit & LOQ	Limit			Result of Test Items			Unit
		Leachate Limit			Leachate			
Antimony	0.6	-			NA			mg/L
Arsenic	0.5	-			NA			mg/L
Barium	35	-			NA			mg/L
Cadmium	0.15	-			NA			mg/L
Cobalt	80	-			NA			mg/L
Copper	10	-			NA			mg/L
Lead	0.5	-			NA			mg/L
Nickel	3.5	-			NA			mg/L
Selenium	0.5	-			NA			mg/L
Silver	5	-			NA			mg/L
Total Chromium	5	-			NA			mg/L
Zinc	50	-			NA			mg/L
Chromium (VI)	2.5	-			NA			mg/L
Mercury	0.05	-			NA			mg/L

Sludge - Conventional

Test Parameters	Test Method	Reporting limit & LOQ	Limit		Result of Test Items			Unit
			Sludge Reporting Limit	Limits for specific disposal pathway	Sludge			
pH	HJ 962-2018	-	-	-	NA			-
% Solids	HJ 613-2011	-	-	-	NA			%
Fecal Coliform	EPA 1681	-	-	-	NA			MPN/g
Paint Filter Test	EPA 9095B	-	-	-	NA			-

Sludge - AP and APEOs: including all isomers

ISO 18857-2, ASTM D7065, ISO 18254-1, EPA 3540C:1996, EPA 8321B:2007

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge			
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0.4	-	NA			mg/kg
NP, mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3			NA			mg/kg
OPEO	9002-93-1, 9036-19-5, 68987-90-6			NA			mg/kg
OP, mixed isomers	140-66-9, 1806-26-4, 27193-28-8			NA			mg/kg

Sludge - Chlorotoluenes

USEPA 3540/3541, USEPA 3550, USEPA 3640, USEPA 827, EPA 3540C:1996, EPA 8270E:2018

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge			
Chlorotoluenes	Multiple	0.2	-	NA			mg/kg

Sludge - Polycyclic Aromatic Hydrocarbons (PAHs)

USEPA 3540/3541, USEPA 3550, USEPA 3640, USEPA 827, EPA 3540C:1996, EPA 8270E:2018

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge			
Acenaphthene	83-32-9	0.2	-	NA			mg/kg
Acenaphthylene	208-96-8			NA			mg/kg
Anthracene	120-12-7			NA			mg/kg
Benzo[a]anthracene	56-55-3			NA			mg/kg
Benzo[a]pyrene (BaP)	50-32-8			NA			mg/kg
Benzo[b]fluoranthene	205-99-2			NA			mg/kg
Benzo[e]pyrene	192-97-2			NA			mg/kg
Benzo[ghi]perylene	191-24-2			NA			mg/kg
Benzo[j]fluoranthene	205-82-3			NA			mg/kg
Benzo[k]fluoranthene	207-08-9			NA			mg/kg
Chrysene	218-01-9			NA			mg/kg
Dibenz[a,h]anthracene	53-70-3			NA			mg/kg
Fluoranthene	206-44-0			NA			mg/kg
Fluorene	86-73-7			NA			mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5			NA			mg/kg
Naphthalene	91-20-3			NA			mg/kg
Phenanthrene	85-01-8			NA			mg/kg
Pyrene	129-00-0			NA			mg/kg

Sludge - Anions

HJ 745-2015

Test Parameters	Limit				Result of Test Items			Unit
	Sludge Reporting Limit & LOQ	Limits for specific disposal pathway			Sludge			
Cyanide	20	-			NA			mg/kg

Appendix A - Discharge limit according to regulation

（二）排放许可限值

表 8 废水污染物排放

序号	排放口编号	排放口名称	污染物种类	许可排放浓度限值	许可年排放量限值（t/a）				
					第一年	第二年	第三年	第四年	第五年
主要排放口									
1	DW002	污水排放口	苯胺类	1.0mg/L	/	/	/	/	/

序号	排放口编号	排放口名称	污染物种类	许可排放浓度限值	许可年排放量限值（t/a）				
					第一年	第二年	第三年	第四年	第五年
2	DW002	污水排放口	pH 值	6-9	/	/	/	/	/
3	DW002	污水排放口	二氧化氯	0.5mg/L	/	/	/	/	/
4	DW002	污水排放口	总磷（以 P 计）	1.5mg/L	/	/	/	/	/
5	DW002	污水排放口	色度	80	/	/	/	/	/
6	DW002	污水排放口	悬浮物	100mg/L	/	/	/	/	/
7	DW002	污水排放口	氨氮（NH3-N）	20mg/L	/	/	/	/	/
8	DW002	污水排放口	硫化物	0.5mg/L	/	/	/	/	/
9	DW002	污水排放口	五日生化需氧量	150mg/L	/	/	/	/	/
10	DW002	污水排放口	总氮（以 N 计）	30mg/L	/	/	/	/	/
11	DW002	污水排放口	化学需氧量	500mg/L	/	/	/	/	/
主要排放口合计			CODcr		/	/	/	/	/
			氨氮		/	/	/	/	/
一般排放口									
一般排放口合计			CODcr		/	/	/	/	/

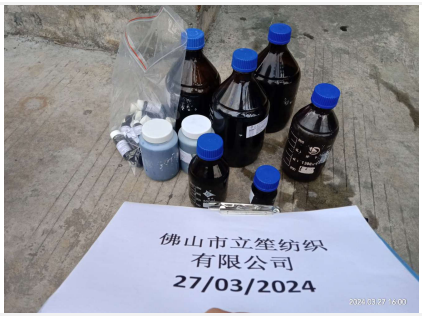
Appendix B - Photos of sampling points and samples (with relative time and date)

I001 - Untreated wastewater

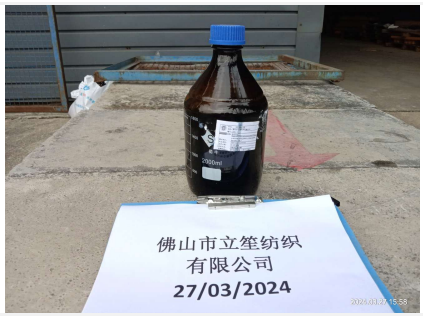
Sampling point
27/03/2024,10:23

Sampling point surrounding environment
27/03/2024,10:23

Labelled sample bottles
27/03/2024,16:00



Sample for phthalate test
27/03/2024,15:58



Sample packaging
27/03/2024,16:01

Report Number (9324)086-1109

Appendix C - On-site Field Data Record Sheet

ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

CPSD-AN-00613-DATA 07	
Issue Date:	February 20, 2024
Version No.: 1	
Business Line: Analytical	

Attach the completed field data form in the test report.

Facility Information			
Date of Sampling:	27/03/2024		
Sample Number (ZDHC Composite Sample Code):	93240861109		
Facility Name:	佛山市立笙纺织有限公司		
Facility Address:	佛山市南海区西樵镇百东村沙滘南便村大塱		
Facility Type (tick all applicable):	☑ Dyeing and Finishing ○ Laundry, Washing and Finishing ○ Printing ○ Other (please specify)	○ Fabric Mill ○ Natural Leather processing ○ Synthetic Leather processing	
Discharge Type (tick applicable):	○ Direct discharge ☑ Indirect discharge ○ Zero liquid discharge (ZLD)	○ with pre-treatment ☑ without pre-treatment ○ with own ETP	Other Notes:
Discharge Description:	○ Discharge to environment (e.g. river, stream, sea etc.) ☑ Sewage treatment plant	○ Other (please specify)	
Discharge Volume:	☑ ≥ 15m³ per day	○ < 15m³ per day	Ко ≥ 450m³/d

日排：佛山市南海区鑫龙污水处理厂 Add：南海创业大道

Sample Type and Details	
Sample Type	**Sample Details**
○ Incoming Water	--
☑ Untreated WW	○ with equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): ______ = volume of tank (m³) / flow rate (m³/h) If HRT > 12 h, grab sampling from EQT is allowed.
○ Effluent	○ Direct Enter sampling time(s) in page 2 and take field test measurements. ○ Indirect Enter sampling time(s) in page 2. No field test measurements required except on client's request. ○ Facility has WWTP ○ Plant is in operating condition ○ with equalisation tank (EQT) present Hydraulic Retention Time (HRT) (Hours): ______ = volume of tank (m³) / flow rate (m³/h) If HRT > 12 h, grab sampling from EQT is allowed.
○ Sludge	Disposal Pathway (The pathway must be defined by the facility. If the facility cannot provide information, pathway "F" shall be assumed.) ○ A >1000°C offsite incineration ○ B Landfill with significant control ○ C Building products processed >1000°C ○ D Landfill with limited control ○ E Incineration/ Building products processed <1000°C ○ F Landfill with no control ○ G Land application Sludge flux (weight/time) if applicable:

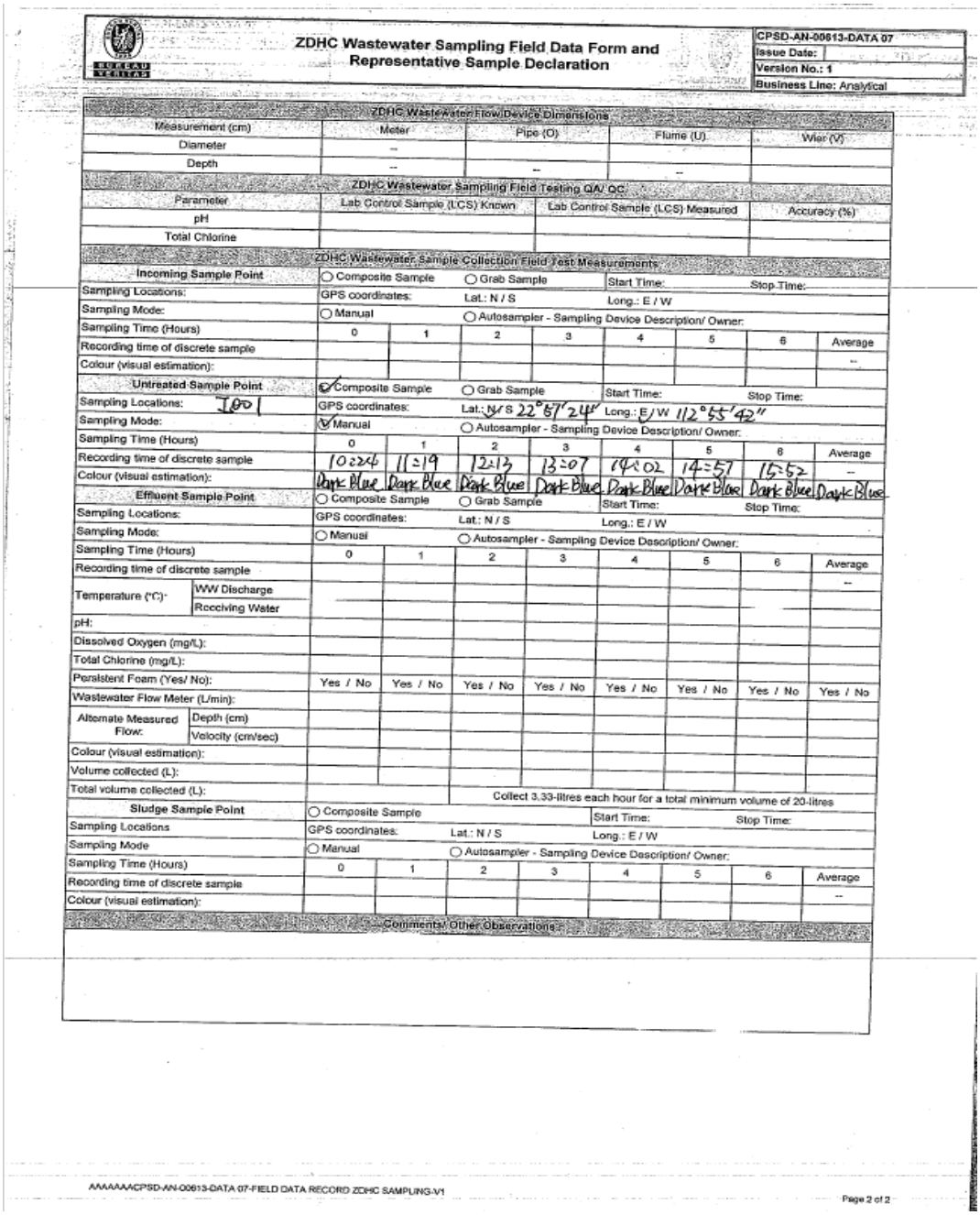
ZDHC Wastewater Sampling - Facility Confirmation

The wastewater samples have been collected under the facilities' normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples. Sampling protocol for wastewater and sludge samples are in accordance with ZDHC SAP including appendix E.
In no circumstances shall samples be taken during times when the production process is not running or the wastewater is diluted, for example due to heavy rainfall.

Facility Confirmation		Sampler Information	
Facility Name:	佛山市立笙纺织有限公司	Sampler's Name/ Email:	黄樟星 杜鑫麟
Facility Representative Name:	区小姐 13435465188	Sampler's ZDHC Accredited No.:	[illegible]
Facility Representative Signature and Stamp:	(signature)	Sampler's Signature:	黄樟星 杜鑫麟
Date:	2024. 3. 27	Date:	27/03/2024

AAAAAAACPSD-AN-00613-DATA 07-FIELD DATA RECORD ZDHC SAMPLING-V1 Page 1 of 2

Appendix C - On-site Field Data Record Sheet (continued)



ZDHC Wastewater Sampling Field Data Form and Representative Sample Declaration

CPSD-AN-00613-DATA 07 | Issue Date: | Version No.: 1 | Business Line: Analytical

ZDHC Wastewater Flow Device Dimensions

Measurement (cm)	Meter	Pipe (O)	Flume (U)	Weir (V)
Diameter	--			
Depth	--	--	--	

ZDHC Wastewater Sampling Field Testing QA/ QC

Parameter	Lab Control Sample (LCS) Known	Lab Control Sample (LCS) Measured	Accuracy (%)
pH			
Total Chlorine			

ZDHC Wastewater Sample Collection Field Test Measurements

Incoming Sample Point

Composite Sample ○ Grab Sample | Start Time: | Stop Time:
Sampling Locations:
GPS coordinates: | Lat.: N / S | Long.: E / W
Sampling Mode: ○ Manual ○ Autosampler - Sampling Device Description/ Owner:

Sampling Time (Hours)	0	1	2	3	4	5	6	Average
Recording time of discrete sample								
Colour (visual estimation):								--

Untreated Sample Point

✓ Composite Sample ○ Grab Sample | Start Time: | Stop Time:
Sampling Locations: 1001
GPS coordinates: | Lat.: N/S 22°57'24" | Long.: E/W 112°55'42"
Sampling Mode: ✓ Manual ○ Autosampler - Sampling Device Description/ Owner:

Sampling Time (Hours)	0	1	2	3	4	5	6	Average
Recording time of discrete sample	10:24	11:19	12:13	13:07	14:02	14:57	15:52	
Colour (visual estimation):	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue	Dark Blue

Effluent Sample Point

○ Composite Sample ○ Grab Sample | Start Time: | Stop Time:
Sampling Locations:
GPS coordinates: | Lat.: N / S | Long.: E / W
Sampling Mode: ○ Manual ○ Autosampler - Sampling Device Description/ Owner:

Sampling Time (Hours)	0	1	2	3	4	5	6	Average
Recording time of discrete sample								
Temperature (°C): WW Discharge								--
Temperature (°C): Receiving Water								
pH:								
Dissolved Oxygen (mg/L):								
Total Chlorine (mg/L):								
Persistent Foam (Yes/ No):	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No	Yes / No
Wastewater Flow Meter (L/min):								
Alternate Measured Flow: Depth (cm)								
Alternate Measured Flow: Velocity (cm/sec)								
Colour (visual estimation):								
Volume collected (L):								
Total volume collected (L):	Collect 3.33-litres each hour for a total minimum volume of 20-litres							

Sludge Sample Point

○ Composite Sample | Start Time: | Stop Time:
Sampling Locations
GPS coordinates: | Lat.: N / S | Long.: E / W
Sampling Mode ○ Manual ○ Autosampler - Sampling Device Description/ Owner:

Sampling Time (Hours)	0	1	2	3	4	5	6	Average
Recording time of discrete sample								
Colour (visual estimation):								--

Comments/ Other Observations:

AAAAAAACPSD-AN-00613-DATA 07-FIELD DATA RECORD ZDHC SAMPLING-V1

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END OF REPORT