ClearStream

By ZDHC

Organization Name
Demo Supplier C

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-

ZDHC ID
A120OE10

TRID
TR356AQ70

Wastewater Guideline
ZDHC Textile Wastewater Guideline V2.0

Reporting Cycle
2023-Apr

Reporting Date
09-01-2023

Sample Date
27-11-2022

Demo Supplier C Overview

Sector
-

Materials
-

Processes
-

Sample Locations
Effluent, Untreated, Sludge

Discharge Type
Direct

Fibre Type
-

Pre-Treatments
Sludge handling

Major Sludge Pathway
D: Landfill with Limited Control Measures

% Representation of Sludge Disposal
0%

Average Total Wastewater Generated
20 m3/day

HIGH LEVEL PERFORMANCE

The section below shows the high-level results from your Laboratory test report in context with the ZDHC Wastewater Guidelines and scoring methodology. The numbers below display scoring of parameters tested that meet requirement set forth by the ZDHC Wastewater Guidelines. For more info on scoring methodology please refer Appendix B.

57/57	199/199	36/36
Conventionals and Anions	MRSL	Metals

PERFORMANCE BREAKDOWN

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

MRSL

Meets Requirements | Does Not Meet Requirements | Not Analyzed

Conventional and Anions

Aspirational | Progressive | Foundational | Alert | Not Analyzed

Metals

Aspirational | Progressive | Foundational | Alert | Not Analyzed

Sludge

Requirements not met for Major Sludge Disposal Pathway

PARAMETER TYPE DETAILS: MRSL

100.00%	100.00%	100.00%
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	Anti- Microbials & Biocides	Chlorinated Parafins
100.00%	100.00%	100.00%
Chlorobenzenes and Chlorotoluenes	Chlorophenols	Dimethyl Formamide (DMFa)
100.00%	100.00%	100.00%
Dyes – Carcinogenic or Equivalent Concern	Dyes – Disperse (Allergenic)	Dyes – Navy Blue Colourant
100.00%	100.00%	100.00%
Flame Retardants	Glycols / Glycol Ethers	Halogenated Solvents
	100.00%	100.00%
MRSL	Organotin Compounds	Other/Miscellaneous Chemicals
100.00%	100.00%	100.00%
Perfluorinated and Polyfluorinated Chemicals (PFCs)	Phthalates – including all other esters of ortho-phthalic acid	Polycyclic Aromatic Hydrocarbons (PAHs)
100.00%	100.00%	100.00%
Restricted Aromatic Amines (Cleavable from Azo-colourants)	UV Absorbers	Volatile Organic Compounds (VOC)

Meets Requirements Does Not Meet Requirements Not Analyzed Not Required

Parameter	Value
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate - (µg/l)	0.1
4-methoxy-m-phenylenediamine - (µg/l)	0.1
4-methyl-m-phenylenediamine - (µg/l)	0.1
5-nitro-o-toluidine - (µg/l)	0.1
6-methoxy-m-toluidine - (µg/l)	0.1
Acenaphthene - (µg/l)	1
Acenaphthylene - (µg/l)	1

Parameter	Value
AEEA [2-(2-aminoethylamino)ethanol] - (µg/l)	500
Anthracene - (µg/l)	1
Basic violet 3 with >0.1% of Michler´s Ketone - (µg/l)	500
Benzene - (µg/l)	1
Benzidine - (µg/l)	0.1
Benzo[a]anthracene - (µg/l)	1
Benzo[a]pyrene - (µg/l)	1

Parameter	Value
Benzo[b]fluoranthene - (µg/l)	1
Benzo[e]pyrene - (µg/l)	1
Benzo[ghi]perylene - (µg/l)	1
Decabromobiphenyl (DecaBB) - (µg/l)	25
Decabromodiphenyl ether (DecaBDE) - (µg/l)	25
Di(ethylhexyl) phthalate (DEHP) - (µg/l)	10
Di-cyclohexyl phthalate (DCHP) - (µg/l)	10
Di-iso-decyl phthalate (DIDP) - (µg/l)	10
Di-iso-octyl phthalate (DIOP) - (µg/l)	10
Di-isobutyl phthalate (DIBP) - (µg/l)	10
Di-isononyl phthalate (DINP) - (µg/l)	10
Di-n-hexyl phthalate (DnHP) - (µg/l)	10
Di-n-octyl phthalate (DNOP) - (µg/l)	10
Di-n-pentylphthalates - (µg/l)	10
Di-n-propyl phthalate (DPRP) - (µg/l)	10
Dibenz[a,h]anthracene - (µg/l)	1
Diboron trioxide - (µg/l)	100
Dibromobiphenyls (DiBB) - (µg/l)	25
dibromopropylether - (µg/l)	25
Dibutyl phthalate (DBP) - (µg/l)	10
Dibutyltin (DBT) - (µg/l)	0.01
Diethyl phthalate (DEP) - (µg/l)	10
Diisopentylphthalates - (µg/l)	10
Dimethyl formamide; N,N-di-methylformamide (DMFa) - (µg/l)	1000
Dinonyl phthalate (DNP) - (µg/l)	10
Dipropyltin compounds (DPT) - (µg/l)	0.01
Disodium octaborate - (µg/l)	100

Parameter	Value
Disodium tetraborate, anhydrous - (µg/l)	100
Disperse Yellow 3 - (µg/l)	50
Disperse Yellow 39 - (µg/l)	50
Disperse Yellow 49 - (µg/l)	50
o-aminoazotoluene - (µg/l)	0.1
o-anisidine - (µg/l)	0.1
o-cresol - (µg/l)	1
o-Phenylphenol (+salts) - (µg/l)	100
o-toluidine - (µg/l)	0.1
Octabromobiphenyls (OctaBB) - (µg/l)	25
Octabromodiphenyl ether (OctaBDE) - (µg/l)	25
Octylphenol (OP), mixed isomers - (µg/l)	5
Octylphenol ethoxylates (OPEO) - (µg/l)	5
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono-, di-, tri-, tetra- and penta- chlorotoluene - (µg/l)	0.2
Tripropyltin Compounds (TPT) - (µg/l)	0.01
Tris(1,3-dichloro-isopropyl) phosphate (TDCP) - (µg/l)	25
Tris(1-aziridinyl)phosphine oxide) (TEPA) - (µg/l)	25
Tris(2,3,-dibromopropyl)-phosphate (TRIS) - (µg/l)	25
Tris(2-chloroethyl) phosphate (TCEP) - (µg/l)	25
Tris-(2-chloro-1-methylethyl)phosphate (TCPP) - (µg/l)	25
Xylene - (µg/l)	1
Disperse Yellow 9 - (µg/l)	50
Ethylene glycol dimethyl ether - (µg/l)	50
Fluoranthene - (µg/l)	1
Fluorene - (µg/l)	1
Heptabromodiphenyl ether (HeptaBDE) - (µg/l)	25
Hexabromocyclodecane (HBCDD) - (µg/l)	25

Parameter	Value
Hexabromodiphenyl ether (HexaBDE) - (µg/l)	25
p-cresol - (µg/l)	1
Pentabromodiphenyl ether (PentaBDE) - (µg/l)	25
Pentachlorophenol (PCP) - (µg/l)	0.5
Perfluorooctane sulfonate (PFOS) and related substances Perfluorooctanoic acid (PFOA) - (µg/l)	0.01
Perfluorooctanoic acid (PFOA) related substances - (µg/l)	1
Permethrin - (µg/l)	500
Phenanthrene - (µg/l)	1
Polybromobiphenyls (PBB) - (µg/l)	25
Pyrene - (µg/l)	1
Quinoline - (µg/l)	50
Short-chain Chlorinated paraffin (C10 – C13) - (µg/l)	5
Tetraboron disodium heptaoxide, hydrate - (µg/l)	100
Tetrabromobisphenol A (TBBPA) - (µg/l)	25
Tetrabromodiphenyl ether (TetraBDE) - (µg/l)	25
Tetrabutyltin compo+A195:B206unds (TeBT) - (µg/l)	0.01
Tetrachloroethylene - (µg/l)	1
Tetraethyltin Compounds (TeET) - (µg/l)	0.01
Tetraoctyltin compounds (TeOT) - (µg/l)	0.01
Thiourea - (µg/l)	50
Toluene - (µg/l)	100
Tribromodiphenylethers (TriBDEs) - (µg/l)	25
Trichloroethylene - (µg/l)	1
Triclosan - (µg/l)	100
Tricyclohexyltin (TCyHT) - (µg/l)	0.01
Triethylene glycol dimethyl ether - (µg/l)	50
Indeno[1,2,3-cd]pyrene - (µg/l)	1

Parameter	Value
m-cresol - (µg/l)	1
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17) - (µg/l)	5
Methylene chloride - (µg/l)	1
Mono- and tri-butyltin derivatives - (µg/l)	0.01
Mono-, di- and tri-methyltin derivatives - (µg/l)	0.01
Mono-, di- and tri-octyltin derivatives - (µg/l)	0.01
Mono-, di- and tri-phenyltin derivatives - (µg/l)	0.01
Monobromobiphenyls (MonoBB) - (µg/l)	25
Monobromodiphenylethers (MonoBDEs) - (µg/l)	25
Naphthalene - (µg/l)	1
Nonabromobiphenyls (NonaBB) - (µg/l)	25
Nonabromodiphenyl ether (NonaBDE) - (µg/l)	52
Nonylphenol (NP), mixed isomers - (µg/l)	5
Nonylphenol ethoxylates (NPEO) - (µg/l)	5
2,4-dichlorophenol - (µg/l)	0.5
2,4-xylidine - (µg/l)	0.1
2,5-dichlorophenol - (µg/l)	0.5
2,6-dichlorophenol - (µg/l)	0.5
2,6-xylidine - (µg/l)	0.1
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) - (µg/l)	100
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec- butyl) phenol (UV-350) - (µg/l)	100
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) - (µg/l)	100
2-chlorophenol - (µg/l)	0.5
2-ethoxyethanol - (µg/l)	50
2-ethoxyethyl acetate - (µg/l)	50
2-methoxyethanol - (µg/l)	50
2-methoxyethylacetate - (µg/l)	50

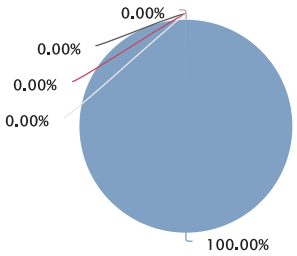
Parameter	Value
2-methoxypropylacetate - (µg/l)	50
2-naphthylamine - (µg/l)	0.1
2-Naphthylammoniumacetate - (µg/l)	0.1
3,3-dichlorobenzidine - (µg/l)	0.1
3,3-dimethoxylbenzidine - (µg/l)	0.1
3,3-dimethylbenzidine - (µg/l)	0.1
3,4,5-trichlorophenol - (µg/l)	0.5
3,4-dichlorophenol - (µg/l)	0.5
3-chlorophenol - (µg/l)	0.5
4,4-methylene- bis-(2-chloro-aniline) - (µg/l)	0.1
4,4-methylenedi-o-toluidine - (µg/l)	0.1
4,4-methylenedianiline - (µg/l)	0.1
Benzo[j]fluoranthene - (µg/l)	1
Benzo[k]fluoranthene - (µg/l)	1
Bis(2,3-dibromopropyl) phosphate (BIS) - (µg/l)	25
Bis(2-methoxyethyl) phthalate (DMEP) - (µg/l)	10
Bis(2-methoxyethyl)-ether - (µg/l)	50
Bisphenol A - (µg/l)	10
Borate, zinc salt - (µg/l)	100
Boric acid - (µg/l)	100
Butyl benzyl phthalate (BBP) - (µg/l)	10
C.I. Acid Red 26 - (µg/l)	500
C.I. Acid Violet 49 - (µg/l)	500
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) - (µg/l)	500
C.I. Basic Green 4 (Malachite Green Chloride) - (µg/l)	500
C.I. Basic Green 4 (Malachite Green Oxalate) - (µg/l)	500
C.I. Basic Green 4 (Malachite Green) - (µg/l)	500

Parameter	Value
C.I. Basic Red 9 - (µg/l)	500
C.I. Basic Violet 14 - (µg/l)	500
C.I. Direct Black 38 - (µg/l)	500
C.I. Direct Blue 6 - (µg/l)	500
C.I. Direct Red 28 - (µg/l)	500
C.I. Disperse Blue 1 - (µg/l)	500
C.I. Disperse Blue 3 - (µg/l)	500
Chrysene - (µg/l)	0
Component 1: C39H23Cl-CrN7O12S 2Na - (µg/l)	500
Component 2: C46H-30CrN10O20S2 3Na - (µg/l)	500
Disperse Blue 102 - (µg/l)	50
Disperse Blue 106 - (µg/l)	50
Disperse Blue 124 - (µg/l)	50
Disperse Blue 26 - (µg/l)	50
Disperse Blue 35 - (µg/l)	50
Disperse Blue 7 - (µg/l)	50
Disperse Brown 1 - (µg/l)	50
Disperse Orange 1 - (µg/l)	50
Disperse Orange 11 - (µg/l)	50
Disperse Orange 3 - (µg/l)	50
Disperse Orange 37/59/76 - (µg/l)	50
Disperse Red 1 - (µg/l)	50
Disperse Red 11 - (µg/l)	50
Disperse Red 17 - (µg/l)	50
Disperse Yellow 1 - (µg/l)	50
1,2-benzenedicarboxylic acid, di-C6-8 branched and liearalkyl esters , C7-rich (DIHP) - (µg/l)	10
1,2-benzenedicarboxylic acid, di-C7-11 branched and liearalkyl esters (DHNUP) - (µg/l)	10

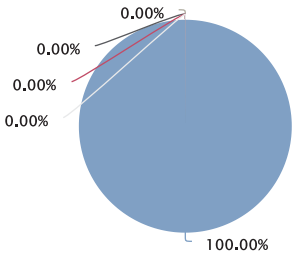
Parameter	Value
1,2-dichlorobenzene - (µg/l)	0.2
1,2-dichloroethane - (µg/l)	1
2,2-bis(bromomethyl)-1,3-propanediol (BBMP) - (µg/l)	25
2,3,4,5-tetrachlorophenol - (µg/l)	0.5
2,3,4,6-tetrachlorophenol - (µg/l)	0.5
2,3,4-trichlorophenol - (µg/l)	0.5
2,3,5,6-tetrachlorophenol - (µg/l)	0.5
2,3,5-trichlorophenol - (µg/l)	0.5
2,3,6-trichlorophenol - (µg/l)	0.5
2,3-dichlorophenol - (µg/l)	0.5
2,4,5-trichlorophenol - (µg/l)	0.5
2,4,5-trimethylaniline - (µg/l)	0.1
2,4,5-trimethylaniline hydrochloride - (µg/l)	0.1
2,4,6-trichlorophenol - (µg/l)	0.5
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327) - (µg/l)	100
4,4-oxydianiline - (µg/l)	0.1
4,4-thiodianiline - (µg/l)	0.1
4-aminoazobenzene - (µg/l)	0.1
4-aminodiphenyl - (µg/l)	0.1
4-chloro-o-toluidine - (µg/l)	0.1
4-chloro-o-toluidinium chloride - (µg/l)	0.1
4-chloroaniline - (µg/l)	0.1
4-chlorophenol - (µg/l)	0.5

PARAMETER TYPE DETAILS: CONVENTIONALS AND ANIONS

- Aspirational
- Progressive
- Foundational
- Alert
- Not Analyzed



CONVENTIONALS



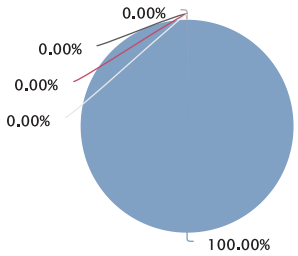
ANIONS

Parameter	Value
Ammonium-Nitrogen - (mg/l)	0.5
AOX - (mg/l)	0.1
Biochemical Oxygen Demand 5-days concentration (BOD) - (mg/l)	8
Chemical Oxygen Demand (COD) - (mg/l)	40
Colour (436nm) - (M-1)	2
Colour (525nm) - (M-1)	1
Colour (620nm) - (M-1)	1
Dissolved Oxygen (DO) - (mg/l)	0
E.coli - (CFU/100mL)	126
Oil and Grease - (mg/l)	0.5
Persistent foam - (None)	Absent
pH - (pH)	0.1
Phenol - (mg/l)	0.001
Temperature difference - (C)	5
Total Chlorine - (mg/l)	0
Total Dissolved Solids (TDS) - (mg/l)	0
Total Nitrogen - (mg/l)	5

Parameter	Value
Chloride - (mg/l)	0
Cyanide, total - (mg/l)	0.05
Sulfate - (mg/l)	0
Sulfide - (mg/l)	0.01
Sulfite - (mg/l)	0.2

PARAMETER TYPE DETAILS: METALS

- Aspirational
- Progressive
- Foundational
- Not Analyzed
- Alert



METALS

Parameter	Value
Antimony (Sb) - (mg/l)	0.01
Arsenic (As) - (mg/l)	0.005
Barium (Ba) - (mg/l)	0
Chromium (VI) - (mg/l)	0.001
Chromium, total (Cr) - (mg/l)	0.05
Cobalt (Co) - (mg/l)	0.01
Copper (Cu) - (mg/l)	0.25
Lead (Pb) - (mg/l)	0.01
Mercury (Hg) - (mg/l)	0.001
Nickel (Ni) - (mg/l)	0.05
Selenium (Se) - (mg/l)	0
Silver (Ag) - (mg/l)	0.005
Cadmium (Cd) - (mg/l)	0.01
Tin - (mg/l)	0
Zinc (Zn) - (mg/l)	0.5

SAMPLE AND TEST INFORMATION

Wastewater Guideline
ZDHC Textile Wastewater Guideline V2.0

Reporting Cycle
2023-Apr

Reporting Date
09-01-2023

Sample Date
27-11-2022

ZDHC APPROVED LABORATORY DETAILS

Name
ADEC Cleanzia Laboratory

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Email Address
esgqa@adec-innovations.com

Sampler ID
DEMOC3

Lab Test Reference Number
DEMOC1

Contact Name
ADEC Cleanzia Laboratory

Contact Number
-

APPENDIX

Appendix A

https://downloads.roadmaptozero.com/output/ZDHC-Wastewater-Guidelines

Appendix B - High Level Performance Calculations

Total points available per Parameter Type is based on the below logic and the total required parameters to test. The total required parameters to test is assigned to the given facility based on their Discharge Type and Daily Average Wastewater Generated. Please see Appendix A for more information on this.

Conventional, Anions and Metals Scoring

The below logic is applicable for Conventional, Anions and Metals. With Metals being scored separately.

1. Foundational Points: The total number of "Conventional and Anions" or "Metals" parameters that meet the minimum Foundational requirements.
Example: Of the "Conventional and Anions" parameters tested, 24 meet at least the Foundational requirements. 24x1 = 24 points.

2. Progressive Points: The total number of "Conventional and Anions" or "Metals" parameters that meet the minimum Progressive requirements, multiplied by two.
Example: 5 parameters meet Progressive requirements. 5x2 = 10 points.

3. Aspirational Points: The total number of "Conventional and Anions" or "Metals" parameters that meet the minimum Aspirational requirements multiplied by three.
Example: 3 parameters meet Aspirational requirements. 3x3=9 points.

Note, any parameters where the following results are allowed:
1. Absent/Present or Pass/Fail
2. Not Detected (ND)

Will be given three points if they are Absent or Pass or ND. This is because these results are classed as Aspirational.

Total Score Calculation:
Foundational + Progressive + Aspirational = Total Score. Example: 24 + 10 + 9 = 43.
The ClearStream score in this example would be 43 points.

MRSL Scoring

Conformance Points: Total number of MRSL parameters that meet ZDHC MRSL Reporting Limit in the ZDHC Wastewater Guidelines.

Note, Any parameters flagged as Absent/Present or Pass/Fail are given one point if they are Absent or Pass. This also holds true for any results that are ND (Not Detected).
Example: 160 parameters meet MRSL Reporting Limits. 160x1 = 160 points.

General Notes

Parameters that are "Sample and Report only" or tested outside of the required parameters to be tested for the given Supplier are not included as part of the total scores.