

SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)

Number: DELC25003825

Report Date: 10/04/2025

Factory's name:	AARTI INTERNATIONAL LTD
Factory's address:	Dyeing & Processing Unit, Village Bhaman Kalan & Harhian, Post Uppal, Kohara Machhiwara Road - Ludhiana - 141123
Audit ID:	23936
Type of wastewater discharge:	ZLD
On-site Wastewater treatment plant:	With wastewater treatment plant
Average total industrial wastewater generated:	≥ 15m ³ /day
Date and time of the beginning of sampling:	07/04/2025, 5:30 PM
Date and time of the end of sampling:	07/4/2025, 06:00 PM
Date received sample:	07/04/2025
Testing period:	From 08/04/2025 to 10/04/2025
Arrival temperature at laboratory:	5.4°C
Sample type:	
Sample / Incoming water	N/A
Sample / Untreated wastewater	Wine Color, Grab sample at 12:05 PM Sampling location: Latitude 30.90, Longitude 76.13
Sample / Discharged wastewater	N/A
Sample / Sludge	Grey, Grab sample at 12:21 PM Sampling location: Latitude 30.90, Longitude 76.13
Sampling laboratory:	Intertek India Pvt Ltd (Gurgaon)
Testing laboratory:	Intertek India Pvt Ltd (Gurgaon)
ZDHC sampler accreditation certification number:	ZDHC-A-22-E-C001068-R2669-77B2A
Local legal standard name ^[a] :	Punjab Pollution Control Board
Local legal standard no. ^[a] :	CTOW/Varied/LDH1/2023/20269201
Parameters (ZDHC WWSG V2.2, Table 2-3) exceeded local regulation:	No exceeded
Discharge permit provided:	Yes

Tests conducted:

As requested by a brand program, for details refer to attached page(s).



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Summary of test results:

Wastewater / MRSL – Test items	Testing period	Untreated Wastewater
Alkylphenol ethoxylates / Alkylphenols (APEOs/APs)	08/04/2025 to 10/04/2025	ND
Anti-Microbials & Biocides	08/04/2025 to 10/04/2025	ND
Chlorinated Parafins	08/04/2025 to 10/04/2025	ND
Chlorobenzenes and Chlorotoluenes	08/04/2025 to 10/04/2025	ND
Chlorophenols	08/04/2025 to 10/04/2025	ND
Dimethyl Formamide (DMFa)	08/04/2025 to 10/04/2025	ND
Dyes – Carcinogenic or Equivalent Concern	08/04/2025 to 10/04/2025	ND
Dyes – Disperse (Allergenic)	08/04/2025 to 10/04/2025	ND
Flame Retardants	08/04/2025 to 10/04/2025	ND
Glycols / Glycol Ethers	08/04/2025 to 10/04/2025	ND
Halogenated solvents	08/04/2025 to 10/04/2025	ND
Organotin compounds	08/04/2025 to 10/04/2025	ND
Other/Miscellaneous Chemicals (^)	08/04/2025 to 10/04/2025	ND
Perfluorinated & Polyfluorinated chemicals (PFCs)	08/04/2025 to 10/04/2025	ND
Phthalates (Ortho-phthalates)	08/04/2025 to 10/04/2025	ND
Polycyclic aromatic hydrocarbons (PAHs)	08/04/2025 to 10/04/2025	ND
Restricted Aromatic Amines (Cleavable from Azo- colourants)	08/04/2025 to 10/04/2025	ND
UV Absorbers	08/04/2025 to 10/04/2025	ND
Volatile Organic Compounds (VOC)	08/04/2025 to 10/04/2025	ND

Wastewater / Heavy metals - Test items	Testing period	Discharged wastewater		
		Foundational	Progressive	Aspirational
Antimony	N/A	N/A	N/A	N/A
Chromium (VI)	N/A	N/A	N/A	N/A
Barium	N/A		N/A	
Selenium	N/A		N/A	
Tin	N/A		N/A	
Arsenic	N/A	N/A	N/A	N/A
Chromium (total)	N/A	N/A	N/A	N/A
Cobalt	N/A	N/A	N/A	N/A
Cadmium	N/A	N/A	N/A	N/A
Copper	N/A	N/A	N/A	N/A
Lead	N/A	N/A	N/A	N/A
Nickel	N/A	N/A	N/A	N/A
Silver	N/A	N/A	N/A	N/A
Zinc	N/A	N/A	N/A	N/A



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Mercury	N/A	N/A	N/A	N/A
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Wastewater / Conventional parameters - Test items	Testing period	Discharged wastewater		
		Foundational	Progressive	Aspirational
pH ^[f]	N/A	N/A		
Temperature difference ^[f]	N/A	N/A	N/A	N/A
E.coli	N/A	N/A		
Colour	N/A	N/A	N/A	N/A
Persistent foam ^[f]	N/A	N/A		
Wastewater flowrate ^[f]	N/A	N/A		
Ammonium-Nitrogen	N/A	N/A	N/A	N/A
AOX	N/A	N/A	N/A	N/A
Biochemical Oxygen Demand (BOD ₅)	N/A	N/A	N/A	N/A
Chemical Oxygen Demand (COD)	N/A	N/A	N/A	N/A
Dissolved Oxygen (DO) ^[f]	N/A	N/A	N/A	N/A
Oil & Grease	N/A	N/A	N/A	N/A
Total Phenols / Phenol Index	N/A	N/A	N/A	N/A
Total Chlorine ^[f]	N/A	N/A	N/A	N/A
Total Dissolved Solids (TDS)	N/A	N/A		
Total Nitrogen	N/A	N/A	N/A	N/A
Total Phosphorus	N/A	N/A	N/A	N/A
Total Suspended Solids (TSS)	N/A	N/A	N/A	N/A

Wastewater / Anions - Test items	Testing period	Discharged wastewater		
		Foundational	Progressive	Aspirational
Chloride	N/A	N/A		
Cyanide, total	N/A	N/A	N/A	N/A
Sulphate	N/A	N/A		
Sulphide	N/A	N/A	N/A	N/A
Sulphite	N/A	N/A	N/A	N/A



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Sludge – Disposal Pathways
B

Sludge / MRSL - Test items	Testing period	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers	08/04/2025 to 10/04/2025	ND
Polycyclic Aromatic Hydrocarbons (PAHs)	08/04/2025 to 10/04/2025	ND
Chlorotoluenes	08/04/2025 to 10/04/2025	ND

Sludge / Heavy metals - Test items	Testing period	Sludge (Total)	Sludge (Leachate)
Antimony	N/A	N/A	N/A
Arsenic	N/A	N/A	N/A
Barium	N/A	N/A	N/A
Cadmium	N/A	N/A	N/A
Cobalt	N/A	N/A	N/A
Copper	N/A	N/A	N/A
Lead	N/A	N/A	N/A
Nickel	N/A	N/A	N/A
Selenium	N/A	N/A	N/A
Silver	N/A	N/A	N/A
Zinc	N/A	N/A	N/A
Chromium (total)	N/A	N/A	N/A
Chromium VI	N/A	N/A	N/A
Mercury	N/A	N/A	N/A

Sludge / Conventional parameters - Test items	Testing period	Sludge
pH	N/A	N/A
Faecal coliform	N/A	N/A
% Solids	08/04/2025 to 10/04/2025	Report only, refer data
Paint filter test	N/A	N/A

Sludge / Anion - Test items	Testing period	Sludge
Cyanide	N/A	N/A



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Remark:
ND = Not detected (less than ZDHC reporting limit for MRSL parameters) / Not detected (less than lab reporting limit for other parameters)
D = Detected
N/A = Not applicable (Out of scope according to ZDHC WWSG v2.2)
NT = Not tested (Did not test according to applicant's request)
^(S) = The samples were subcontracted to Intertek [Food Lab] for testing.
^(T) = If sample temperature is greater than 8°C and less than 10°C when received from the laboratory.
^(TT) = If sample temperature is exceeded 10°C when received from the laboratory.
@ = Maximum holding time exceeded.
(^)= Borate, zinc salt would report ND when total boron or total zinc less than 100 µg/L.
^[f] = On-site test by sampler.
^[a] = The local legal standard name and legal standard no. is referenced to discharge permit (or contractual agree by CETP) that provided by applicant.
This report shows the test results of the environmental samples of the above factory which were collected on a specific date and time. The results of this report shall not be used for any regulatory compliance purposes.

For and on behalf of
Intertek Testing Services [Analytical – Gurgaon] Limited



RAVINDRA SINGH
Laboratory Manager – Analytical



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Sample / Wastewater

1. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

NP/OP: Modified from ASTM D7065-17, ISO 18857-2 (LC-MS-MS ANALYSIS)

OPEO/NPEO (n>2): Modified from ASTM D7065-17, ISO 18857-2 (LC-MS-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Nonylphenol ethoxylates (NPEO)	Multiple Including 9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	5	ND	µg/L
Nonylphenol (NP), mixed isomers	Multiple Including 104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	5	ND	µg/L
Octylphenol ethoxylates (OPEO)	Multiple Including 9002-93-1; 9036-19-5; 68987-90-6	5	ND	µg/L
Octylphenol (OP), mixed isomers	Multiple Including 140-66-9; 1806-26-4; 27193-28-8	5	ND	µg/L



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2. Anti- Microbials & Biocides

OPP, Triclosan: Modified from USEPA 8270E, Extraction & derivatization with KOH, acetic anhydride (GC-MS ANALYSIS)

Permethrin: Modified from USEPA 8270E, (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
o-Phenylphenol (+salts)	90-43-7	100	ND	µg/L
Triclosan	3380-34-5	100	ND	µg/L
Permethrin	Multiple including 52645-53-1	500	ND	µg/L

3. Chlorinated Parafins

For MCCP: Modified from ISO18219-2:2021 (GC-MS-NCI ANALYSIS)

For SCCP: Modified from ISO 18219-1:2021 (GC-MS-NCI ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	500	ND	µg/L
Short-chain Chlorinated paraffin (SCCPs)(C10 – C13)	85535-84-8	25	ND	µg/L

4. Chlorobenzenes and Chlorotoluenes

Modified from US EPA 8270D & US EPA 8270, (GC-MS ANALYSIS) .

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
1,2-Dichlorobenzene	95-50-1	0.2	ND	µg/L
Other isomers of mono-, di-, tri-, tetra-, penta- and hexa-Chlorobenzene and	Multiple including 108-90-7;	0.2	ND	µg/L



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mono-, di-, tri-, tetra- and penta- chlorotoluene	541-73-1; 106-46-7; 87-61-6; 120-82-1; 108-70-3; 634-66-2; 634-90-2; 95-94-3; 608-93-5; 118-74-1; 95-49-8; 108-41-8; 106-43-4; 32768-54-0; 95-73-8; 19398-61-9; 118-69-4; 95-75-0; 25186-47-4; 7359-72-0; 2077-46-5; 6639-30-1; 23749-65-7; 21472-86-6; 1006-32-2; 875-40-1; 1006-31-1; 877-11-2			
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5. Chlorophenols

Modified from USEPA 8270E extraction & derivatization with KOH, acetic anhydride (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
2-Chlorophenol	95-57-8	0.5	ND	µg/L
2,3-Dichlorophenol	576-24-9	0.5	ND	µg/L



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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-Dichlorophenol	120-83-2	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
2,5-Dichlorophenol	583-78-8	0.5	ND	µg/L
2,6-Dichlorophenol	87-65-0	0.5	ND	µg/L
3-Chlorophenol	108-43-0	0.5	ND	µg/L
3,4-Dichlorophenol	95-77-2	0.5	ND	µg/L
3,4,5-Trichlorophenol	609-19-8	0.5	ND	µg/L
3,5-Dichlorophenol	591-35-5	0.5	ND	µg/L
4-Chlorophenol	106-48-9	0.5	ND	µg/L
Pentachlorophenol (PCP)	87-86-5	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

6. Dimethyl Formamide (DMFa)

Modified from EPA 8270E (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Dimethyl formamide; N,N-dimethylformamide (DMFa)	68-12-2	1000	ND	µg/L

7. Dyes – Carcinogenic or Equivalent Concern

Modified to Liquid extraction, (LC-MS-MS ANALYSIS)



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Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
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
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

8. Dyes – Disperse (Allergenic)

Modified to Liquid extraction, (LC-MS-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
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	12222-75-2 56524-77-7	50	ND	µg/L



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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

9. Flame retardants

Other flame retardant substances: Modified from USEPA 8270E, Dichloromethane extraction GC-MS & LC-MS-MS ANALYSIS)

Borate salt: Determined as total Boron via ICP-OES ANALYSIS

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Boric acid **	10043-35-3; 11113-50-1	500 in Boron	ND	µg/L
Diboron trioxide **	1303-86-2	500 in Boron	ND	µg/L
Disodium octaborate **	12008-41-2	500 in Boron	ND	µg/L
Disodium tetraborate anhydrous **	1303-96-4; 1330-43-4	500 in Boron	ND	µg/L
Tetraboron disodium heptaoxide, hydrate **	12267-73-1	500 in Boron	ND	µg/L
Hexabromocyclododecane (HBCDD)	3194-55-6	25	ND	µg/L



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2,2-Bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	25	ND	µg/L
Polybromobiphenyls (PBBs)	59536-65-1	25	ND	µg/L
Monobromobiphenyls (MonoBB)	Multiple	25	ND	µg/L
Monobromodiphenylethers (MonoBDEs)	Multiple	25	ND	µg/L
Dibromobiphenyls (DiBB)	Multiple	25	ND	µg/L
Dibromopropylether	21850-44-2	25	ND	µg/L
Tribromodiphenylethers (TriBDEs)	Multiple	25	ND	µg/L
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	25	ND	µg/L
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	25	ND	µg/L
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	25	ND	µg/L
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	25	ND	µg/L
Octabromobiphenyls (OctaBB)	Multiple	25	ND	µg/L
Octabromodiphenyl ether (OctaBDE)	32536-52-0	25	ND	µg/L
Nonabromobiphenyls (NonaBB)	Multiple	25	ND	µg/L
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	25	ND	µg/L
Decabromobiphenyl (DecaBB)	13654-09-6	25	ND	µg/L
Decabromodiphenyl ether (DecaBDE)	1163-19-5	25	ND	µg/L
Tetrabromobisphenol A (TBBPA)	79-94-7	25	ND	µg/L
Bis(2,3-dibromopropyl) phosphate (BDBPP)	5412-25-9	25	ND	µg/L
Tris-(2-chloro-1-methylethyl) phosphate (TCPP)	13674-84-5	25	ND	µg/L
Tris(1-aziridinyl)phosphine oxide (TEPA)	545-55-1	25	ND	µg/L
Tris(1,3-dichloro-isopropyl) phosphate (TDCP)	13674-87-8	25	ND	µg/L



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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

** Report total boron directly, no conversion from Boron salt.

10. Glycols / Glycol Ethers

Modified from USEPA 8270E (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
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-methoxypropylacetate	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

11. Halogenated solvents

Modified from USEPA 8260 (Headspace GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
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



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12. Organotin compounds

Modified from ISO 17353 Derivatization with NaB (C2H5) (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Dipropyltin compounds (DPT)	Multiple including 867-36-7	0.01	ND	µg/L
Mono-, di- and tri-butyltin derivatives	Multiple including 1118-46-3; 1461-22-9	0.01	ND	µg/L
Mono, di-, and tri-methyltin derivatives	Multiple including 993-16-8; 753-73-1; 1066-45-1	0.01	ND	µg/L
Mono, di-, and tri-octyltin derivatives	Multiple including 3091-25-6; 3542-36-7; 2587-76-0	0.01	ND	µg/L
Mono, di-, and tri-phenyltin derivatives	Multiple including 1124-19-2; 1135-99-5; 639-58-7	0.01	ND	µg/L
Tetrabutyltin compounds (TeBT)	Multiple including 1461-25-2	0.01	ND	µg/L
Tetraethyltin Compounds (TeET)	Multiple including 597-64-8	0.01	ND	µg/L
Tetraoctyltin compounds (TeOT)	Multiple including 3590-84-9	0.01	ND	µg/L
Tricyclohexyltin (TCyHT)	Multiple including 3091-32-5	0.01	ND	µg/L



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Tripopyltin (TPT) Compounds	Multiple including 2279-76-7	0.01	ND	µg/L
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13. Other/Miscellaneous Chemicals

Others: Modified to Liquid extraction, (LC-MS-MS ANALYSIS)
Borate salt: Determined as total Boron via ICP-OES ANALYSIS

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	500	ND	µg/L
Bisphenol A	80-05-7	10	ND	µg/L
Borate, zinc salt ^^	12767-90-7	100 in Boron & 100 in Zinc	Boron: ND Zinc: ND	µg/L
Quinoline	91-22-5	50	ND	µg/L
Thiourea	62-56-6	50	ND	µg/L

^^ = Report total boron & total zinc individually, and no conversion from boron / zinc salt.

14. Perfluorinated & polyfluorinated chemicals (PFCs)

PFCs: Modified from EPA 8270, LC-MS-MS ANALYSIS
FTOH: Modified from EPA 8270, LC-MS-MS ANALYSIS

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
Perfluorooctane sulfonate (PFOS) and related substances	Multiple including 1763-23-1	0.01	ND	µg/L
Perfluorooctanoic acid (PFOA) and related Substances	Multiple including 335-67-1	1	ND	µg/L



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15. Phthalates – including all other esters of ortho-phthalic acid

Modified from USEPA 8270E, Dichloromethane extraction (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
1,2-benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	10	ND	µg/L
1,2-benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	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-isobutyl phthalate (DIBP)	84-69-5	10	ND	µg/L
Di-isononyl 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



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16. Polycyclic aromatic hydrocarbons (PAHs)

Modified from USEPA 8270E Solvent extraction (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
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
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

17. Restricted Aromatic Amines (Cleavable from Azo-colourants)

Modified from ISO 14362-1 and ISO14362-3,Reduction step with sodium dithionite, solvent extraction(GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
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



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3,3'-Dichlorobenzidine	91-94-1	0.1	ND	µg/L
3,3'-Dimethoxybenzidine	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-chloroaniline)	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

18. UV Absorbers

Modified from USEPA 8270, Dichloromethane extraction (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	ND	µg/L



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2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	ND	µg/L
2-benzotriazol-2-yl-4,6-di-tertbutylphenol (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

19. Volatile organic compounds (VOCs)

Modified from USEPA 8260D Headspace GC-MS-ANALYSIS

Chemical substances	CAS no.	ZDHC reporting limit (µg/L)	Untreated wastewater	Unit
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
Toluene	108-88-3	1	ND	µg/L
Xylene	1330-20-7	1	ND	µg/L



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20. Heavy metals

Modified from USEPA 6010C & USEPA 6020A, ISO 18412 EPA (ICP-MS ANALYSIS)

Chemical substances	Limit			Legal * Requirement	Lab reporting limit (mg/L)	Discharged wastewater	Unit
	Foundational	Progressive	Aspirational				
Antimony	0.1 mg/L	0.05 mg/L	0.01 mg/L	-	0.01	N/A	mg/L
Chromium (VI)	0.05 mg/L	0.005 mg/L	0.001 mg/L	-	0.001	N/A	mg/L
Barium	Sample and report only			-	0.01	N/A	mg/L
Selenium	Sample and report only			-	0.01	N/A	mg/L
Tin	Sample and report only			--	0.01	N/A	mg/L
Arsenic	0.05 mg/L	0.01 mg/L	0.005 mg/L		0.005	N/A	mg/L
Chromium (total)	0.2 mg/L	0.1 mg/L	0.05 mg/L	-	0.05	N/A	mg/L
Cobalt	0.05 mg/L	0.02 mg/L	0.01 mg/L	-	0.01	N/A	mg/L
Cadmium	0.1 mg/L	0.05 mg/L	0.01 mg/L	-	0.01	N/A	mg/L
Copper	1 mg/L	0.5 mg/L	0.25 mg/L	-	0.25	N/A	mg/L
Lead	0.1 mg/L	0.05 mg/L	0.01 mg/L	-	0.01	N/A	mg/L
Nickel	0.2 mg/L	0.1 mg/L	0.05 mg/L	-	0.05	N/A	mg/L
Silver	0.1 mg/L	0.05 mg/L	0.005 mg/L	-	0.005	N/A	mg/L
Zinc	5.0 mg/L	1.0 mg/L	0.5 mg/L	-	0.5	N/A	mg/L
Mercury	0.01 mg/L	0.005 mg/L	0.001 mg/L	-	0.001	N/A	mg/L

* Regulation/Standard information for discharged wastewater as well as the limitation value (or contractual limit value agreed by CETP) for the required parameters (mandatory).



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21. Conventional parameters

Parameters	Test method	Limit			Legal * Requirement	Lab reporting limit	Discharged waste water	Unit
		Foundatio nal	Progress ive	Aspiratio nal				
pH	IS 3025 (Part 11) Electrometric method only	6-9			-	N/A	N/A	[f]
Temperature difference	IS 3025 (Part 9) Electrometric method only	△+15 °C	△+10 °C	△+5 °C	-	N/A	N/A	[f] °C
E.coli	SM 9221B presumptive, confirm positive with SM9221 F or G	126 MPN/100-ml			-	1.8	N/A	MPN/100-ml
Colour (436 nm ; 525 nm ; 620nm)	ISO 7887-B	7;5;3 [m-1]	5;3;2 [m-1]	2;1;1 [m-1]	-	N/A	N/A	[m-1]
Persistent Foam	Visual	No indication of Persistent foam in receiving water			-	N/A	N/A	[f]
Wastewater Flowrate	/	15m ³ /day			-	N/A	N/A	[f] m ³ /day
Ammonium-Nitrogen	IS 3025 (Part 34)	10 mg/L	1 mg/L	0.5 mg/L	-	0.5	N/A	mg/L
AOX	ISO 9562	3 mg/L	0.5 mg/L	0.1 mg/L	-	0.06	N/A	mg/L



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Biochemical Oxygen Demand (BOD ₅)	IS 3035 (Part 44)	30 mg/L	15 mg/L	8 mg/L	-	3.0	N/A	mg/L
Chemical Oxygen Demand (COD)	IS 3025 (Part 58)	150 mg/L	80 mg/L	40 mg/L	-	4.0	N/A	mg/L
Dissolved Oxygen (DO)	EPA 360.1 (Electro metric method only)	≥ 4 mg/L			-	N/A	N/A	^[f] mg/L
Oil and grease	IS 3025 (Part 39)	10 mg/L	2 mg/L	0.5 mg/L	-	0.5	N/A	mg/L
Total Phenols / Phenol Index	IS 3025 (Part 43)	0.5 mg/L	0.01 mg/L	0.001 mg/L	-	0.0005	N/A	mg/L
Total Chlorine	EPA 330.5 (Electro metric method only)	1 mg/L			-	0.2	N/A	^[f] mg/L
Total Dissolved Solids (TDS)	IS 3025 (Part 16)	Sample and report only			-	1.0	N/A	mg/L
Total-Nitrogen	IS 3025 (Part 34)	20 mg/L	10 mg/L	5 mg/L	-	0.5	N/A	mg/L
Total-Phosphorus	IS 3025 (Part 31) / IS 3025 (Part 65)	3 mg/L	0.5 mg/L	0.1 mg/L	-	0.02	N/A	mg/L
Total Suspended Solids (TSS)	IS3025 (Part 17)	50 mg/L	15 mg/L	5 mg/L	-	1.0	N/A	mg/L
Chloride	IS 3025 (Part 32)	Sample and report only			-	1.0	N/A	mg/L
Cyanide, total	APHA 4500-CN	0.2 mg/L	0.1 mg/L	0.05 mg/L	-	0.02	N/A	mg/L
Sulphate	IS 3025 (Part 24)	Sample and report only			-	1.0	N/A	mg/L
Sulphide	IS 3025 (Part 29)	0.5 mg/L	0.05 mg/L	0.01 mg/L	-	0.02	N/A	mg/L



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Sulphite	SM 4500- SO32-C /	2 mg/L	0.5 mg/L	0.2 mg/L	-	0.2	N/A	mg/L
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Sample / Sludge

Sludge flux (weight/time) and / or flow data volume/time: _____ N/A _____

1. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers

Modified from ASTM D7065-17, ISO 18857-2 (LC-MS-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Nonylphenol ethoxylates (NPEO)	9016-45-9; 26027-38-3; 37205-87-1; 68412-54-4; 127087-87-0	0.4	ND	mg/kg
Nonylphenol (NP), mixed isomers	104-40-5; 11066-49-2; 25154-52-3; 84852-15-3	0.4	ND	mg/kg
Octylphenol ethoxylates (OPEO)	9002-93-1; 9036-19-5; 68987-90-6	0.4	ND	mg/kg
Octylphenol (OP), mixed isomers	140-66-9; 1806-26-4; 27193-28-8	0.4	ND	mg/kg



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2. Polycyclic aromatic hydrocarbons (PAHs)

Modified from USEPA 8270E Solvent extraction (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Acenaphthene	83-32-9	0.2	ND	mg/kg
Acenaphthylene	208-96-8	0.2	ND	mg/kg
Anthracene	120-12-7	0.2	ND	mg/kg
Benzo[a]anthracene	56-55-3	0.2	ND	mg/kg
Benzo[a]pyrene (BaP)	50-32-8	0.2	ND	mg/kg
Benzo[b]fluoranthene	205-99-2	0.2	ND	mg/kg
Benzo[e]pyrene	192-97-2	0.2	ND	mg/kg
Benzo[ghi]perylene	191-24-2	0.2	ND	mg/kg
Benzo[j]fluoranthene	205-82-3	0.2	ND	mg/kg
Benzo[k]fluoranthene	207-08-9	0.2	ND	mg/kg
Chrysene	218-01-9	0.2	ND	mg/kg
Dibenz[a,h]anthracene	53-70-3	0.2	ND	mg/kg
Fluoranthene	206-44-0	0.2	ND	mg/kg
Fluorene	86-73-7	0.2	ND	mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5	0.2	ND	mg/kg
Naphthalene	91-20-3	0.2	ND	mg/kg
Phenanthrene	85-01-8	0.2	ND	mg/kg
Pyrene	129-00-0	0.2	ND	mg/kg

3. Chlorotoluenes

Modified from US EPA 8270D & US EPA 8270, (GC-MS ANALYSIS)

Chemical substances	CAS no.	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Other isomers of mono-, di-, tri-, tetra- and penta- chlorotoluene	Multiple	0.2	ND	mg/kg



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4. Heavy metals

Other heavy metals: Modified from EPA 3050 (ICP-MS ANALYSIS)
Chromium VI: Modified from USEPA 3060a (LC-ICP-MS ANALYSIS)
Mercury: Modified from EPA 7471 b EPA 3051a (ICP-ANALYSIS)

Chemical substances	ZDHC reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Antimony	5	N/A	mg/kg
Arsenic	5	N/A	mg/kg
Barium	200	N/A	mg/kg
Cadmium	1	N/A	mg/kg
Cobalt	400	N/A	mg/kg
Copper	50	N/A	mg/kg
Lead	5	N/A	mg/kg
Nickel	20	N/A	mg/kg
Selenium	5	N/A	mg/kg
Silver	50	N/A	mg/kg
Zinc	400	N/A	mg/kg
Total Chromium	50	N/A	mg/kg
Chromium (VI)	20	N/A	mg/kg
Mercury	1	N/A	mg/kg

5. Conventional parameters

Chemical substances	Test method	Lab reporting limit (Dry weight)	Sludge (Dry weight)	Unit
pH	USEPA SW 9045D	N/A	N/A	N/A
Fecal Coliform	USEPA 1681	1.8	N/A	MPN/g
% Solids	USEPA 160.3	N/A	40.0	%
Paint Filter Test	USEPA 9095B	N/A	N/A	N/A



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6. Anions

Modified from USEPA 9013, USEPA 9014, USEPA 9213, HJ745 with Colorimetry analysis.

Chemical substances	Lab reporting limit (Dry weight) (mg/kg)	Sludge (Dry weight)	Unit
Cyanide	20	N/A	mg/kg

7. Leachate heavy metals

Other heavy metals: Modified from EPA 3050 (ICP-MS ANALYSIS)

Chromium VI: Modified from USEPA 3060a (LC-ICP-MS ANALYSIS)

Mercury: Modified from EPA 7471 b EPA 3051a (ICP-ANALYSIS)

Chemical substances	Lab reporting limit (mg/L)	Sludge	Unit
Arsenic	0.5	N/A	mg/L
Cadmium	0.15	N/A	mg/L
Total Chromium	5	N/A	mg/L
Lead	0.5	N/A	mg/L
Antimony	0.6	N/A	mg/L
Barium	35	N/A	mg/L
Cobalt	80	N/A	mg/L
Copper	10	N/A	mg/L
Nickel	3.5	N/A	mg/L
Selenium	0.5	N/A	mg/L
Silver	5	N/A	mg/L
Zinc	50	N/A	mg/L
Chromium (VI)	2.5	N/A	mg/L
Mercury	0.05	N/A	mg/L



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Appendix 1: reference to ZDHC WWSG v2.2 Table 4B

Parameters	Total metals and anions threshold values (mg/kg)	Disposal pathways						
		A and B (Leachate result in mg/L)	C (Leachate result in mg/L)	D (Leachate result in mg/L)	E (Leachate result in mg/L)	F (Leachate result in mg/L)	G (Leachate result in mg/L)	G (Maximum total metals limit in mg/kg)
Antimony	12	Not applicable	Not applicable	7.8	0.6	0.6	0.6	Not applicable
Arsenic	10			2.75	0.5	0.5	0.5	41
Barium	700			67.5	35	35	35	500
Cadmium	3			0.58	0.15	0.15	0.15	39
Cobalt	1600			80	80	80	80	Not applicable
Copper	200			17.5	10	10	10	1500
Lead	10			2.75	0.5	0.5	0.5	400
Nickel	70			11.75	3.5	3.5	3.5	420
Selenium	10			0.75	0.5	0.5	0.5	36
Silver	100			5	5	5	5	Not applicable
Zinc	1000			50	50	50	50	2800
Total Chromium	100			5	5	5	5	1200
Chromium VI	50			3.75	2.5	2.5	2.5	50
Mercury	1			1.25	0.5	0.5	0.5	17



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Appendix 2: reference to ZDHC WWSG v2.2 Table 4C

Parameters	Disposal pathways					
	A and B	C	D	E	F	G
pH	Not applicable	Not applicable	5 – 11 s.u.	5 – 11 s.u.	6.5 – 9 s.u.	6.5 – 9 s.u.
Fecal Coliform (MPN/g)	Not applicable	Not applicable	Not applicable	Not applicable	< 1000 (MPN/g)	< 1000 (MPN/g)
% Solids	Sample and report only					
Paint Filter Test	Not applicable	Not applicable	Pass Paint filter test			
Cyanide	Not applicable	Not applicable	85 mg/kg	70 mg/kg	70 mg/kg	70 mg/kg



**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

Number: DELC25003825

Photo of sampling points:

Untreated wastewater



Sludge



Photo of samples:

Untreated wastewater



Sludge



**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

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Attachment – sampling protocol for wastewater & sludge:

ZDHC Monitoring

Sampling Protocol for Wastewater and Sludge acc. ZDHC SAP 2.1* incl. Apdx. E

Facility Name: **Aski International LTD**

Address and Contact: **Dying & Processing Unit, Village Bshaman Kolan, Hoshiarpur, Post uppal Kohara Machhiwara Road Ludhiana - 141113**

Facility type: Dyeing and Finishing Fabric Mill Laundry, Washing and Finishing Natural Leather processing Printing Synthetic Leather processing

Date of sampling: **07/04/2025**

Sample General ID (if applicable):

Discharge description: **ZLD Plant**

Weather conditions: on sampling day: **Sunny day** on day before: **Sunny day**

* Changes from ZDHC Wastewater Guidelines V2.2 (September 2024) are implemented.

Sample Type and Details (see also page 2)

Discharged Wastewater direct indirect

Pre-treated WW without sludge Untreated WW

Sludge with below disposal pathway: A B C D E

Sludge volume generated: Process Chemical liquid solid (powder/granulate/pieces)

Times of sampling (if applicable)	Untreated:	1	2	3	4	5	6	7	or Grab (HRT>12h):
	Discharged WW (if direct):	1	2	3	4	5	6	7	or Grab (HRT>12h):
	Incoming:	1	2	3	4	5	6	7	or Grab (HRT>12h):
	Sludge (liquid):	1	2	3	4	5	6	7	Solid sludge:

Picture ID (or Date & Time / Interval): **07/04/2025 12:05**

GPS coordinates of sampling points:

Incoming W.: Lat.: ON OS _____ Long.: OE OW _____

Untreated WW: Lat.: ON OS **30.908695** Long.: OE OW **76.13094**

Discharged WW: Lat.: ON OS _____ Long.: OE OW _____

Sludge: Lat.: ON OS **30.908228** Long.: OE OW **76.131128**

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**SOFTLINES WASTEWATER TESTING
TEST REPORT (TEXTILES)**

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Type of discrete discharged WW sample	Column for Averaged Readings and in field at right							Volume of aliquot(s): mL
	1	2	3	4	5	6	7	
pH:								Averaged Readings or Grab Sample readings:
Temp. WW discharge	°C	°C						
Temp. receiving water	°C	°C						
Flow rate:	L/s	m ³ /d avg.						
Dissolved Oxygen:	mg/L	mg/L						
Total Chlorine:	mg/L	mg/L						
Persistent foam:	<input type="radio"/> yes <input type="radio"/> no							

④ time when discrete sample for composite was taken. Use comment field if number of samples is greater than seven, or if above fields are otherwise not sufficient.
 Note: 1.0 m³/h = 0.27 L/s; 1.0 L/s = 86.4 m³/d; 1 m³/h = 0.042 m³/d; multiply the flow rate in m³/h by the daily operation time of the ETP to get flow rate in m³/d;

Sampling procedure: automated sampling with beaker/bowl other:

Wastewater Flow Data (Discharged WW)

System: Flow meter (in facility) Pipe (O) Flume (U) Wier (V)

Diameter [cm]

Water Depth [cm]

Flow Speed [cm/sec]

General Field Parameters and Sensory Data (enter as far as applicable)				Foaming	Floating matter:
Type	T ambient air [°C]	Odour	Colour	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no
Incoming				<input type="radio"/> yes <input checked="" type="radio"/> no	<input type="radio"/> yes <input checked="" type="radio"/> no
Untreated			White Colour	<input type="radio"/> yes <input type="radio"/> no	<input type="radio"/> yes <input type="radio"/> no
Discharged WW			Grey Colour		
Sludge			Grey Colour		

Field Testing QA/QC			Accuracy [%]
Parameter	Lab Control Sample target value	Lab Control Sample measured value	
pH			
Total Chlorine			

Other observations:

Additional notes (e.g., alternatively measured flow and readings, abbreviations used, etc):



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intertek ZDHC Monitoring
Total Quality. Assured.

ZDHC Wastewater Sampling - Facility Confirmation

The Wastewater samples have been collected under the facility's normal production scale and wastewater flow rate. The sampler listed below was on-site and collected the samples.

Sampling person (name & email address): Anil Kumar

Facility Name: Aarti International Ltd

Sampler's ZDHC accreditation no.: ZDHC-A-22-E-C001068-R2669-77B2A

Facility's Representative name: Mr. Harpreet Singh

Sampler's Signature: Anil Kumar
02/04/2025

Facility's Representative Signature and Stamp:

AARTI INTERNATIONAL LIMITED
 (Processing Unit)
 Vill.- Bhama Kalan & Harhian,
 P.O.- Kohara Machiwara,
 Link Road, LUDHIANA-141113.
 Phones: 91-161-3006100
 Fax: - 91-161-3006150
 CIN-U27109PB1993PLCO14027

Rev 11 - use with Guideline CS009.TP (Issue 11)
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End of report

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