



BUREAU
VERITAS

LAB REPORT

Report Number	(6724)174-0144		
Date of sampling	June 21, 2024		
Reporting Date	June 29, 2024		
Factory Company Name	RADNIK EXPORTS GLOBAL PVT LTD		
Factory Address	C-16, SECTOR-67, NOIDA, 201301, INDIA		
Discharge Type	Direct Discharge		
Discharge Destination Name & Address	Irrigation / River Through Drain		
Average total industrial wastewater generated	Equal or more than 15m ³ per day	Manufacturing Process Type	Textile
Onsite ETP / Pretreatment	Yes	Homogenization Tank & Holding Time	Yes
ZDHC Sampler ID	C001068-R2E1E-792E1		
Sample Type & Description & Sampling Method	Untreated wastewater	I001, Transparent liquid, composite sample at 10:40, 11:40, 12:40, 13:40, 14:40, 15:40, 16:40	
	Treated wastewater	I002, Transparent liquid, composite sample at 10:45, 11:45, 12:45, 13:45, 14:45, 15:45, 16:45	
	Sludge	I003, Brown solid, composite sample at 11:15	

Local Legal Data / Contractual agree by CETP Data	
Local Legal Standard Name / Name of Contractual agree by CETP^[a]	NA
Standard Number	NA
Parameters (ZDHC WWG V2.1, Table 2 & 3) exceeded local legal standard / contractual agree by CETP standard	No exceeded
Discharge permit provided	No

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	B	Sludge Overall Result	Meet Sludge Disposal Pathway (sample & report)



Internal Description	
Sample reference number	(6724)174-0144
Date & time of the beginning of sampling	June 21, 2024 , 10:30
Date & time of the end of sampling	June 21, 2024 , 17:30
Sample received date	(22/06/2024)
Testing period	(22/06/2024) to (29/06/2024)
Arrival temperature at laboratory	6.4 °C
Comments	The results of this report shall not be used for any regulatory compliance purposes.

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

Asst Manager, Sustainability

Report approved by

Sumanta Kumar Swain, Manager

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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Wastewater Result Summary - ZDHC MRSL Parameters

ZDHC MRSL Wastewater	Untreated 1001		
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		



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Wastewater Result Summary - ZDHC Heavy Metals Parameters

ZDHC Heavy Metals Wastewater	Effluent 1002		
Antimony	MEET		
Chromium (VI)	MEET		
Barium	MEET		
Selenium	MEET		
Tin	MEET		
Arsenic	MEET		
Total Chromium	MEET		
Cobalt	MEET		
Cadmium	MEET		
Copper	MEET		
Lead	MEET		
Nickel	MEET		
Silver	MEET		
Zinc	MEET		
Mercury	MEET		



Wastewater Result Summary - ZDHC Conventional and Anions Parameters

ZDHC Conventional and Anions Wastewater	Effluent 1002		
pH ^[f]	MEET		
Temperature difference ^[f]	MEET		
E.coli	MEET		
Colour	MEET		
Persistent foam ^[f]	DATA		
Wastewater flowrate ^[f]	DATA		
Ammonium-Nitrogen	MEET		
AOX	DATA		
Biochemical Oxygen Demand (BOD ₅)	MEET		
Chemical Oxygen Demand (COD)	MEET		
Dissolved Oxygen (DO) ^[f]	DATA		
Oil & Grease	MEET		
Total Phenols / Phenol Index	MEET		
Total Chlorine ^[f]	DATA		
Total Dissolved Solids (TDS)	DATA		
Total Nitrogen	MEET		
Total Phosphorus	MEET		
Total Suspended Solids (TSS)	MEET		
Chloride	DATA		
Cyanide, total	MEET		
Sulfate	DATA		
Sulfide	MEET		
Sulfite	MEET		



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Sludge Result Summary - ZDHC Sludge Parameters

Sludge Parameters	Sludge I003		
Antimony	MEET		
Arsenic	MEET		
Barium	MEET		
Cadmium	MEET		
Cobalt	MEET		
Copper	MEET		
Lead	MEET		
Nickel	MEET		
Selenium	MEET		
Silver	MEET		
Total Chromium	MEET		
Zinc	MEET		
Chromium (VI)	MEET		
Mercury	MEET		
pH	MEET		
% Solids	DATA		
Paint Filter Test	DATA		
Fecal Coliform	DATA		
AP and APEOs: including all isomers	ND		
Polycyclic Aromatic Hydrocarbons (PAHs)	ND		
Chlorotoluenes	ND		
Cyanide	ND		

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 - XXXXX | | | |
| * | = | See remark | | | |



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Wastewater Test Result - ZDHC MRSL

1A) AP and APEOs: including all isomers

NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-)MS), OPEO/NPEO (n>2): ASTM D7742 ISO 18857-2

Table with 6 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include NPEO, NP, mixed isomers, OPEO, and OP, mixed isomers.

1B) Anti-Microbials & Biocides

US EPA 8270 E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS BS EN 12673-1999 an alternative method of solvent extraction and derivatization are included/ US EPA 8270 E Solvent extraction, followed by GC-MS ISO 14154:2005 An alternate method, without derivatization and determination by LCMS/LCMSMS is also possible

Table with 6 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include o-Phenylphenol (+salts), Triclosan, and Permethrin.

1C) Chlorinated Parafins

EPA 3510 and analyzed by ISO18219-1:2021, ISO 12010:2019 Methods for SCCP with GC-MS(NCI) or LC-MS/MS/ EPA 3510 and analyzed by ISO18219-2:2021 Method for MCCP with GC-MS(NCI) or LC-MS/MS

Table with 6 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include MCCPs (C14-C17) and SCCPs (C10-C13).

1D) Chlorobenzenes and Chlorotoluenes

USEPA 8260D, 8270E, Purge and Trap, Head Space, Dichloromethane extraction followed by GC-MS

Table with 6 columns: Test Parameters, CAS Number, Reporting limit & LOQ, Result of Test Items (Untreated I001), Unit. Rows include 1,2-dichlorobenzene and Other isomers of mono-, di-, tri-, tetra-, penta-, and hexa-chlorobenzene and mono-, di-, tri-, tetra-, and penta- chlorotoluene.



1E) Chlorophenols

USEPA 8270E Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS, BS EN 12673-1999 the procedure of solvent extraction and derivatization are included

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

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

Liquid extraction, LC-MS

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 (Sensitising)

Liquid extraction, LC-MS

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

Liquid extraction, LC-MS

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: C46H30CrN10O20S2 3Na	Not allocated	500	ND			µg/L

1J) Flame Retardants

USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS(-MS) and Determined as total boron via ICP

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
Bis(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

USEPA 8270E Liquid extraction, LC-MS GC-MS

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

USEPA 8260D Headspace GC-MS or Purge and trap GC-MS

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 Derivatisation with NaB (C₂H₅)₄ GC-MS

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 compounds (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

Liquid extraction, LC-MSMS/ Liquid extraction, LC-MS/ Determine as total boron and total zinc via ICP

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)

PFCs: EPA 537:2020

FTOH: BS EN 12673-1999, EPA 8270

PFCs: LC-MSMS

FTOH: GC-MS Derivatisation with acetic anhydride followed by GC-MS

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 Dichloromethane extraction GC-MS

Test Parameters	CAS Number	Reporting limit & LOQ	Result of Test Items			Unit
			Untreated I001			
1,2-benzenedicarboxylic acid, di-C6-8 branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6, 84777-06-0	10	ND			µg/L
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl 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 Solvent extraction GC-MS

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)

Reduction step with sodium dithionite, solvent extraction EPA 8270/ Reduction step with sodium dithionite, solvent extraction EPA 8270E and ISO 14362-1 GC/MS and LC/MS/MS

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-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- diaminoanisoole 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

USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B. Dichloromethane extraction GC-MS or LC-MS(-MS)

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)

ISO 11423-1 Headspace or Purge and trap GC-MS USEPA 8260D Add ISO 20595 Static headspace for determination of VOC in wastewater/ ISO 11423-1 Headspace or Purge and trap GC-MS EPA 8270 BS EN 12673-1999/ HJ 1067 or EPA 8260D or ISO 11423-1

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 total boron and total zinc individually, not the salt. Total boron and total zinc values should be less than 100 µg/L to be conformant. When total boron is >100 µg/L and total zinc are <100 µg/L (or vice versa) the sample is still conformant.
- d = Not required to test this parameter as this related to sand blasting.



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Report Number (6724)174-0144

Wastewater Test Result - ZDHC Heavy Metals

Wastewater - ZDHC Heavy Metals

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS

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



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	I002	
pH ^[f]	With reference to ISO 10523	-	6-9	6-9	6-9	-	7.39		-
Temperature difference ^[f]	USEPA 170.1	-	15	10	5	-	9.7		Δ °C
E.coli	-	126	126	126	126	-	106		MPN/100-ml
Colour (436 nm)	ISO 7887 (Method A and B)	2	7	5	2	-	0.7		m ⁻¹
Colour (525 nm)		1	5	3	1	-	0.5		m ⁻¹
Colour (620 nm)		1	3	2	1	-	0.4		m ⁻¹
Persistent Foam ^[f]	-	-	No indication of Persistent Foam			-	Absent		-
Wastewater Flowrate ^[f]	-	-	-	-	-	-	8.15		m ³ /day
Ammonium-Nitrogen	APHA 4500-NH3-D / 23ndEdn,	0.5	10	1	0.5	-	0.7		mg/L
AOX	ISO 9562	0.1	3	0.5	0.1	-	0.89		mg/L
BOD ₅	APHA 5210B	8	30	15	8	-	15		mg/L
COD	APHA 5220D	40	150	80	40	-	90		mg/L
DO ^[f]	ISO 5814	-	Sample & Report	Sample & Report	Sample & Report	-	5.05		mg/L
Oil & Grease	APHA 5520-B 23rd Edn, 2017	0.5	10	2	0.5	-	ND		mg/L
Total Phenols / Phenol Index	APHA 5530-C 23ndEdn, 2017	0.001	0.5	0.01	0.001	-	ND		mg/L
Total Chlorine ^[f]	ISO 7393-2	0.1	Sample & Report	Sample & Report	Sample & Report	-	1.1		mg/L
TDS	APHA 2540C	5	Sample & Report	Sample & Report	Sample & Report	-	810		mg/L
Total Nitrogen	APHA 4500-Norg -C / 23ndEdn,	5	20	10	5	-	1.12		mg/L
Total Phosphorus	APHA 4500 P-J / 23ndEdn, 2017	0.1	3	0.5	0.1	-	ND		mg/L
TSS	APHA 2540D	5	50	15	5	-	16		mg/L



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(6724)174-0144

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	IS 3025 Part-32: 1988	-	Sample & Report	Sample & Report	Sample & Report	-	1974		mg/L
Cyanide, total	APHA 4500 CN - E ,23rd Edn, 2017	0.05	0.2	0.1	0.05	-	ND		mg/L
Sulfate	IS 3025 Part-24: Sec-1: 2022	-	Sample & Report	Sample & Report	Sample & Report	-	295.4		mg/L
Sulfide	APHA 4500-S2-D / 23rdEdn.	0.01	0.5	0.05	0.01	-	ND		mg/L
Sulfite	APHA 4500-SO32 D, 23rd Edn, 2017	0.2	2	0.5	0.2	-	ND		mg/L



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Sludge Test Result - Metals & Conventional and Anions & MRSL

Sludge - Metals

With reference to EPA 3015A, 6020A, 200.8, 6020B, 3051A and ISO 17294-2 and analyzed by ICP-MS

Test Parameters	Sludge Reporting limit & LOQ	Limit		Result of Test Items			Unit
		Total Metals and Anions Threshold Values		Sludge			
				I003			
Antimony	5	12		ND			mg/kg
Arsenic	5	10		ND			mg/kg
Barium	200	700		ND			mg/kg
Cadmium	1	3		ND			mg/kg
Cobalt	400	1600		ND			mg/kg
Copper	50	200		ND			mg/kg
Lead	5	10		7			mg/kg
Nickel	20	70		ND			mg/kg
Selenium	5	10		ND			mg/kg
Silver	50	100		ND			mg/kg
Total Chromium	50	100		ND			mg/kg
Zinc	400	1000		ND			mg/kg
Chromium (VI)	20	50		ND			mg/kg
Mercury	1	1		ND			mg/kg

Sludge (Leachate) - Metals

With reference to EPA 1311 and HJ/T 300 for leachate

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 I003			
pH	USEPA SW 9045D	-	-	6 - 9	7.5			-
% Solids	USEPA 160.3	-	-	-	80			%
Fecal Coliform	USEPA 1681	-	-	-	<0.18			MPN/g
Paint Filter Test	No Standard	-	-	-	Pass			-

Sludge - AP and APEOs: including all isomers

NP/OP: ISO 18857-2 (modified dichloromethane extraction) or ASTM D7065 (GC-MS or LC-MS(-MS) OPEO/NPEO (n>2): ASTM D7742 or ISO 18857-2

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge I003			
NPEO	9016-45-9, 26027-38-3, 37205-87-1, 68412-54-4, 127087-87-0	0.4	-	ND			mg/kg
NP, mixed isomers	104-40-5, 11066-49-2, 25154-52-3, 84852-15-3			ND			mg/kg
OPEO	9002-93-1, 9036-19-5, 68987-90-6			ND			mg/kg
OP, mixed isomers	140-66-9, 1806-26-4, 27193-28-8			ND			mg/kg

Sludge - Chlorotoluenes

US EPA 8260D, 8270E, Purge and Trap, Head Space Dichloromethane extraction followed by GC-MS

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge I003			
Chlorotoluenes	Multiple	0.2	-	ND			mg/kg



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Sludge - Polycyclic Aromatic Hydrocarbons (PAHs)

USEPA 3540 + USEPA 3650 + USEPA 8270

Test Parameters	CAS Number	Limit		Result of Test Items			Unit
		Reporting Limit & LOQ	Sludge Reporting Limit & LOQ	Sludge			
Acenaphthene	83-32-9	0.2	-	I003			mg/kg
Acenaphthylene	208-96-8			ND			mg/kg
Anthracene	120-12-7			ND			mg/kg
Benzo[a]anthracene	56-55-3			ND			mg/kg
Benzo[a]pyrene (BaP)	50-32-8			ND			mg/kg
Benzo[b]fluoranthene	205-99-2			ND			mg/kg
Benzo[e]pyrene	192-97-2			ND			mg/kg
Benzo[ghi]perylene	191-24-2			ND			mg/kg
Benzo[j]fluoranthene	205-82-3			ND			mg/kg
Benzo[k]fluoranthene	207-08-9			ND			mg/kg
Chrysene	218-01-9			ND			mg/kg
Dibenz[a,h]anthracene	53-70-3			ND			mg/kg
Fluoranthene	206-44-0			ND			mg/kg
Fluorene	86-73-7			ND			mg/kg
Indeno[1,2,3-cd]pyrene	193-39-5			ND			mg/kg
Naphthalene	91-20-3			ND			mg/kg
Phenanthrene	85-01-8			ND			mg/kg
Pyrene	129-00-0			ND			mg/kg

Sludge - Anions

USEPA 9013 + USEPA 9014

Test Parameters	Limit			Result of Test Items			Unit
	Reporting Limit & LOQ	Sludge Reporting Limit & LOQ	Limits for specific disposal pathway	Sludge			
Cyanide	20	-		I003			mg/kg



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Appendix A - Discharge limit according to regulation

Report Number (6724)174-0144

Not Provided



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

I001 - Untreated wastewater

Sampling point

Date & time of photo (21/06/2024, 10:40)



Sampling point surrounding environment

Date & time of photo (21/06/2024, 10:42)



Labelled sample bottles

Date & time of photo (21/06/2024, 16:53)



Sample for phthalate test

Date & time of photo (21/06/2024, 17:12)



Sample packaging

Date & time of photo (21/06/2024, 17:25)





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

e.g. I002 - Effluent

Sampling point

Date & time of photo (21/06/2024, 10:45)



Sampling point surrounding environment

Date & time of photo (21/06/2024, 10:48)



Labelled sample bottles

Date & time of photo (21/06/2024, 16:50)



pH measurement

Date & time of photo (21/06/2024, 10:55)



Sample packaging

Date & time of photo (21/06/2024, 17:27)





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

I003 - Sludge

Sampling point

Date & time of photo (21/06/2024, 11:15)



Sampling point surrounding environment

Date & time of photo (21/06/2024, 11:18)



Labelled sample bottles

Date & time of photo (21/06/2024, 11:30)



Sample packaging

Date & time of photo (21/06/2024, 17:28)






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Appendix C - On-site Field Data Record Sheet

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04 Issue Date: _____ Version No.: 18 Business Line: Analytical
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General Data

Laboratory Sample Number: 67241740144

Client Name: Radmit Exporta Colada Pvt Ltd

Field Contact Person: Pradip Mainali Phone No: 9958176779

Project (Facility Name and Address): S-16 Scady CT NoIDA. S-1.

Sample Identification: Zero discharge with sampling plan

Sample Type: Composite Sample / Grab sample (Please delete as appropriate)

Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant

Date of collection: 21/06/2024.

Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):

*Note: It would be selected more than one

Sampling Collection Information

Sampling Location / Description: Toilet.

Sampling Device Description/ Owner: _____

Sampling mode: Autosampler/ Manual

Sampler Information

Sampler Name/ Email: Vikas Karkyap vikas@vms.com

Sampler ZDHC Accredited no.: C001068 - R2E1E - 792E1

ZDHC Composite Sample Code: _____

Field Data for Wastewater

Arrival Time:	<u>10:30 AM</u>	Departure Time:	<u>5:30 PM.</u>	<u>12/6</u>
Field Parameters	pH: <u>8.13</u>	Temp: <u>31.2 °C</u>	Color: <u>Clear</u>	Flow rate <u>8.50 (colummeter)</u>
Control No. of field equipment				
Factory with effluent treatment plant:	Yes			
Sample matrix:	<input type="checkbox"/> Incoming water (if required)			
	<input checked="" type="checkbox"/> Wastewater before treatment			
	<input checked="" type="checkbox"/> Wastewater after treatment - water at discharge point			
Sampler container number				

ZDHC Wastewater Flow Device Dimensions				
Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sampling Field Testing QA/QC			
Parameter	Laboratory control sample (LCS) Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

ZDHC Wastewater Sample Collection Field Test Measurements									
Recording time	ID	Sampling Time (Hours)							Average (Report with lab data)
		0	1	2	3	4	5	6	
Temp (°C):	Time	<u>10:40</u>	<u>11:40</u>	<u>12:40</u>	<u>1:40</u>	<u>2:40</u>	<u>3:40</u>	<u>4:40</u>	
	Wastewater Discharge	<u>31.2</u>	<u>31.5</u>	<u>31.4</u>	<u>31.2</u>	<u>31.9</u>	<u>31.7</u>	<u>31.5</u>	
pH:	Receiving Water	<u>27.5</u>	<u>27.6</u>	<u>27.8</u>	<u>27.5</u>	<u>27.2</u>	<u>27.4</u>	<u>27.5</u>	
		<u>8.13</u>	<u>8.18</u>	<u>8.21</u>	<u>8.15</u>	<u>8.22</u>	<u>8.14</u>	<u>8.17</u>	
Dissolved Oxygen (mg/L):		<u>2.60</u>	<u>2.60</u>	<u>2.70</u>	<u>2.75</u>	<u>2.09</u>	<u>2.05</u>	<u>2.01</u>	
Total Chlorine (mg/L):		<u>1.85</u>	<u>1.81</u>	<u>1.83</u>	<u>1.85</u>	<u>1.82</u>	<u>1.81</u>	<u>1.84</u>	
Persistent Foam (Yes/No):					<u>NO. foam</u>				
Wastewater Flow meter (L/min):	<u>12/6</u>	<u>8.58</u>	<u>8.55</u>	<u>8.52</u>	<u>8.52</u>	<u>8.52</u>	<u>8.50</u>	<u>8.52</u>	
	Depth (cm)								
Alternate measured Flow	Velocity (cm/sec)								
	Color (visual estimation):				<u>Clear</u>				



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

FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04					
	Issue Date: _____					
	Version No.: 18					
Business Line: Analytical						
Volume collected, mL	1500	1500	1500	1500	1500	1500
Total volume collected	12.0 L					
Remark: Total volume collected must be greater than total of sample size required						

Tests (ZDHC MRSI Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)	
Combined test or individual test (Remark 4)	1. Phthalate	✓	1000 mL total or 1000 mL each	Amber Glass, washed with nitric acid,	Without adding acid	
	2. Chlorobenzenes, Chlorotoluene & PAH	✓				
	3. SCCPs	✓				
	4. APS	✓				
5. APEOs	✓	100 mL				
6. Chlorophenols & Cresols	✓	100 mL				
7. Flame retardant	✓	500 mL				
8. Dyes	✓	10 mL				
9. Glycol	✓	50 mL				
10. *Pesticides	✓	1000 mL				
11. *Nitrosamine	✓	10 mL				
12. Banned Azodyes	✓	2000 mL				
13. *Free primary aromatic amines	✓	500 mL				
14. Organotin Compounds	✓	500 mL				
15. UV absorbers	✓	100				
16. BPA	✓	2				
17. Preservatives	✓	52				
18. VOC & Halogenated Solvents (Remark 6)	✓	10 mL				Fill to full container without air gap; acidify to pH 2 with HCl
19. PFCs (Remark 6)	✓	2 mL	PE, washed with pesticide grade Acetone			Without adding acid



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VERITAS

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

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPD-AN-00613-DATA 04
		Issue Date:
		Version No.: 18
		Business Line: Analytical

General Data

Laboratory Sample Number: 6724174014
 Client Name: Radiuk Exports Global INT. LTD.
 Field Contact Person: Suyaka Mahmudi Phone No: 9958136779
 Project (Facility Name and Address): C-18 Sector 67 Rojda
 Sample Identification: Zero discharge with sampling plan
 Sample Type: Composite Sample / Grab sample (Please delete as appropriate)
 Discharge mode: Direct discharge to environment (Specify destination: River, Sea, Stream...) OR Indirect discharge to sewage treatment plant
 Date of collection: 21/06/24
 Factory Type: Dyeing / Printing / Washing / Finishing / Others (please specify):
 *Note: It would be selected more than one

Sampling Collection Information

Sampling Location / Description: Outlet.
 Sampling Device Description/ Owner:
 Sampling mode: Autosampler/ Manual

Sampler Information

Sampler Name/ Email: Vikas Kashyap vikash@v2000.com@gmail.com
 Sampler ZDHC Accredited no.: C001068-RLIE-792E1
 ZDHC Composite Sample Code:

Field Data for Wastewater

Arrival Time:	<u>10:30 AM.</u>	Departure Time:	<u>5:30 pm</u>	Flow rate <u>8.75</u> (m ³ /min)
Field Parameters	pH: <u>7.39</u>	Temp: <u>33.5 °C</u>	Color: <u>clear</u>	
Control No. of field equipment				
Factory with effluent treatment plant:	Yes			
Sample matrix:	Incoming water (if required)			
	Wastewater before treatment			
	Wastewater after treatment - water at discharge point			
Sampler container number				

ZDHC Wastewater Flow Device Dimensions

Measurement (cm)	Meter	Pipe (O)	Flume (U)	Wier (V)
Diameter	NA			
Depth	NA	NA	NA	

ZDHC Wastewater Sampling Field Testing QA/QC

Parameter	Laboratory control sample (LCS) Known	LCS Measured	Accuracy %
pH			
Total Chlorine			

ZDHC Wastewater Sample Collection Field Test Measurements

Recording time	Sampling Time (Hours)	Sampling Time (Hours)						Average (Report with lab data)
		0	1	2	3	4	5	
Temp (°C):	ID							
	Time	<u>10:45</u>	<u>11:45</u>	<u>12:45</u>	<u>1:45</u>	<u>2:45</u>	<u>3:45</u>	<u>4:45</u>
Temp (°C):	Wastewater Discharge	<u>33.5</u>	<u>33.0</u>	<u>32.7</u>	<u>33.9</u>	<u>32.7</u>	<u>33.5</u>	<u>33.0</u>
	Receiving Water	<u>23.8</u>	<u>23.4</u>	<u>22.5</u>	<u>23.4</u>	<u>22.6</u>	<u>23.0</u>	<u>22.5</u>
pH:		<u>7.39</u>	<u>7.46</u>	<u>7.75</u>	<u>7.41</u>	<u>7.35</u>	<u>7.79</u>	<u>7.40</u>
Dissolved Oxygen (mg/L):		<u>5.00</u>	<u>5.05</u>	<u>5.08</u>	<u>5.10</u>	<u>5.00</u>	<u>5.02</u>	<u>5.01</u>
Total Chlorine (mg/L):		<u>1.16</u>	<u>1.15</u>	<u>1.18</u>	<u>1.12</u>	<u>1.19</u>	<u>1.10</u>	<u>1.12</u>
Persistent Foam (Yes/No):					<u>NO foam</u>			
Wastewater Flow meter (L/min): <u>W376</u>		<u>8.15</u>	<u>8.19</u>	<u>8.12</u>	<u>8.13</u>	<u>8.17</u>	<u>8.15</u>	<u>8.16</u>
Alternate measured Flow	Depth (cm)							
	Velocity (cm/sec)							
Color (visual estimation):				<u>clear</u>				



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

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)		CPSD-AN-00613-DATA 04
			Issue Date:
			Version No.: 18
			Business Line: Analytical

Tests (Conventional Parameters)		Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)
Combined test or Individual test (Remark 4)	20. Total suspended solids (TSS)	<input checked="" type="checkbox"/>	2000 mL total or	Amber Glass, washed with nitric acid,	Without adding acid
	21. Total dissolved solids (TDS)	<input checked="" type="checkbox"/>	2000 mL each		
22. 5-day Biochemical Oxygen Demand (BOD5)		<input checked="" type="checkbox"/>	1000 mL		
23. Colour		<input checked="" type="checkbox"/>	100 mL		
24. Heavy Metals except Cr(VI) & Total-P (Remark 6)		<input checked="" type="checkbox"/>	9 mL	PE, washed with nitric acid	Acidify to pH 2 with HNO ₃
25. Cyanide		<input checked="" type="checkbox"/>	500 mL	Amber Glass, washed with pesticide grade acetone	Adjust pH 12 with 50% NaOH, add 0.05 ml of 10% Na ₂ S ₂ O ₃
26. Cr(VI)		<input checked="" type="checkbox"/>	95 mL	Amber Glass; washed with nitric acid	Filter by 0.45µm filter in field, fill to full container without air gap; adjust pH to 9.0-9.5 by adding ammonium buffer
27. Chemical oxygen demand (COD)		<input checked="" type="checkbox"/>	150 mL		Acidify to pH 2 with H ₂ SO ₄
28. Phenols		<input checked="" type="checkbox"/>	500 mL		
29. Oil and Grease & Total Hydrocarbon		<input checked="" type="checkbox"/>	1000 mL		Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄
30. *Formaldehyde		<input checked="" type="checkbox"/>	25 mL		Fill to full container without air gap; acidify to pH 2 with H ₂ SO ₄
31. Sulfide (Remark 5)		<input checked="" type="checkbox"/>	50 mL	PE, washed with pesticide grade Acetone;	Fill to full container without air gap; add 2 drops of 2M zinc acetate, adjust pH to 9 with 6M NaOH
32. E.coli (Remark 6)		<input checked="" type="checkbox"/>	125 mL	PE, clean, sterile, non-reactive	Add 0.1 ml of 10% Na ₂ S ₂ O ₃ , keep in dark
33. Sulfite		<input checked="" type="checkbox"/>	100 mL	Amber Glass, washed with pesticide grade acetone	Add 1mL of 2.5% EDTA
34. Total-N		<input checked="" type="checkbox"/>	100 mL	Amber Glass; washed with nitric acid;	Acidify to pH 2 with H ₂ SO ₄
35. Ammonium-N		<input checked="" type="checkbox"/>	500 mL		Acidify to pH 2 with HNO ₃
36. Adsorbable organically bound halogens (AOX)		<input checked="" type="checkbox"/>	100 mL		Without adding acid
37. Acute aquatic toxicity: Luminous Bacteria; Fish Egg; Daphnia; Algae;		<input checked="" type="checkbox"/>	1000 mL		
38. Sulphate		<input checked="" type="checkbox"/>	100 mL		
39. Chloride		<input checked="" type="checkbox"/>	100 mL		
40. Others:					

Observation/ Remark:

*Remarks:

- Individual sampling can be performed upon request
- The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
- Scope of ZDHC guideline: Parameter 1-9, 12, 14-29, 31-36, 38, 39
- Scope of synthetic leather industry: Parameter 1-9, 12, 14-24, 26-29, 31, 32, 34, 35, 38, 39
- Scope of MMCF: Parameter 5, 18, 20, 22-24, 28-29, 31, 34-37
- Free primary aromatic amine, pesticides, nitrosamine and formaldehyde are not in the scope of ZDHC Guideline, they are tested upon request.
- Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
- Refer to CPSD-AN-000570-MTHD for additional pretreatment of sulfide if only dissolved sulfide is required to be tested.
- Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

Recorded by: Vikas Kanyal
Full name:

Date: 21/06/24

Comment from factory

Acknowledgement by factory

I hereby confirmed that Bureau Veritas has completed the stated sampling activity at captioned date, time and location. All sample(s) is/are collected in designated container(s) and without any observation in leakage. Sample(s) collected by Bureau Veritas is/are stored in portable freezer / fridge that is maintained in 1-6°C

Signature of Factory Representative: [Signature]
Full Name:

Harish Yadav

Date: 21.06.24

Authorised Signatory



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

	FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE (COMPOSITE / INDIVIDUAL SAMPLING)	CPSD-AN-00613-DATA 04 Issue Date: <u>27/06/14</u> Version No.: 18 Business Line: Analytical
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Field Data for Sludge

Arrival Time:	<u>10:30 AM</u>	Departure Time:	<u>5:30 PM</u>
Field Parameters	pH: <u>7.50</u>	Temp: <u>22.6</u> °C	Flow rate (volume/time) / sludge flux (weight/time):
Control No. of field equipment			
Sampling Time (Hours)	0	1	2
	3	4	5
	6	Average (Report with lab data)	
Recording time	ID		
	Time	<u>11:15</u>	
pH:	<u>7.50</u>		
Temp (°C):	<u>22.6</u>		
Flow rate (volume/time) / sludge flux (weight/time)			
Volume collected, ml			
Total volume collected	<u>6 kg</u>	Remark: Total volume collected must be greater than total of sample size required	

Analysis Required and Preservation Method

Factory with effluent treatment plant	Yes		No		
Sample matrix	Sludge in clarifier (sedimentation tank)				
Sampler container number					
Recording time					
Tests (MRLS Parameter)	Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)	
Combined test or Individual test (Remark 3)	1. Phthalate	✓	Amber Glass, washed with nitric acid	Add 0.2 mL of 10% Na ₂ S ₂ O ₃ (0.008% WV)	
	2. Chlorobenzenes, Chlorotoluene & PAHs	✓			
	3. SCCPs	✓			
	4. APS	✓			
5. APEOs		20 g			
6. Flame retardant		10 g			
7. Dyes		10 g			
8. Glycols		100 g			
9. *Pesticides		20g			
10. Banned Azodyes		20 g			
11. *Free primary aromatic amines		10 g			
12. Chlorophenols & Cresols		20 g			Acidify to -pH 2 with H ₂ SO ₄ . Add 0.02 mL of 10% Na ₂ S ₂ O ₃ (0.008% WV)
13. Organotin Compounds		10 g			Fill to full container without any air gap and acid add
14. VOC & Halogenated Solvents (Remark 5)		10 g			Fill to full bottle without any air gap. Acidify to -pH 2 with HCl
15. PFCs (Remark 5)		10 g			PE, wash with pesticide grade acetone

Tests (Conventional Parameters)	Test required (v)	Total of sample size	Type of container	Preservation method (Store sample at 2-8°C)
16. Heavy Metals except Cr(VI) (Remark 5)	✓	0.2 g	PE, wash with nitric acid	Acidify to -pH 2 with HNO ₃
17. Cr(VI)	✓	2.5 g	Amber Glass, wash with nitric acid	Fill to full container without any air gap and acid add
18. Adsorbable organically bound halogens (AOX)		1 g		
19. Extractable organohalides (EOX)		20 g		
20. Total organic carbon (TOC)		20 g		
21. Cyanide	✓	50 g	Amber Glass, wash with pesticide grade acetone	Adjust pH to 12-13 with 50% NaOH



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



**FIELD DATA RECORD ON ZERO DISCHARGE SAMPLE
(COMPOSITE / INDIVIDUAL SAMPLING)**

CPSD-AN-00613-DATA 04	
Issue Date:	
Version No.:	18
Business Line:	Analytical

***Remarks:**

- Individual sampling can be performed upon request
- The minimum sampling time for 2019 ZDHC guideline is 6 hours with no more than one hour between discrete samples. Sampling time could be adjusted upon request.
- Scope of ZDHC guideline: Parameter 1, 2, 4, 5, 16-17, 21-24
Scope of synthetic leather industry: Parameter 1-8, 10, 12-17
Scope of MMCF: Parameter 16, 18-20
Free primary aromatic amine and pesticides are not in the scope of ZDHC Guideline, they are tested upon request.
- Refer to CPSD-AN-G00019-STIP01, locations with those CPSD test capability inside TCD matrix can perform the combined test.
- Refer to CPSD-AN-00613-MTHD for preparation of field blank for specific parameters.

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.

Facility Name:

Hemish Madam

Sampler's Name:

Vikas Farayaf

Facility Representative Name:

TECHNIK EXPORTS GLOBAL FVT LTD

Sampler's ZDHC Accreditation:

Yes

Facility Representative Signature and stamp:

Sampler's Signature:

Vikas

Hemish Madam
Authorized Signatory

END OF REPORT