Client:



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Test Report No.: 244512624a 001

WUJIANG YUNSHENG DYEING &WEAVING CO., LTD.

NO.9 Pingsheng Road, Pingwang Town, Wujiang, Suzhou, Jiangsu, P.R. China

Buyer's Name : _

Factory Details

Factory Name : Wujiang Yunsheng Dyeing & Weaving Co., Ltd.

Factory Address (with geographical : NO.9 Pingsheng Road, Pingwang Town, Wujiang, Suzhou, Jiangsu, P.R. China

coordinates)
On-site ETP : N

Discharge Type of Wastewater : Indirect discharge

Destination of Wastewater : Wujiang Pingwang Town Sewage Treatment Plant

For Indirect discharge

Name of public wastewater treatment : Wujiang Pingwang Town Sewage Treatment Plant

plants(CETP)

Address of public wastewater treatment Yinghu Village, North Wanxindagiao, Pingwang Town, Suzhou

plants(CETP)

Sampling Details

Sampling Date : 2023-05-10 Sample Receiving Date : 2023-05-11

Testing Period : 2023-05-11 to 2023-05-24

Sampling Method:

Sample Type	Total Volume	1	2	3	4	5	6
Discharged Wastewater	1L	9:35	10:35	11:35	12:35	13:35	14:35
Raw Wastewater	15L	9:45	10:45	11:45	12:45	13:45	14:45
Incoming Water	4L	10:10	-	-	-	-	-
Sludge	1 Bottle	9:20	-	-	-	-	-

Overall Rating	Discharged Wastewater	Raw Wastewater	Sludge		
Conventional Parameters / Anion / Metals	Fulfill Aspirational Limit	Not Tested	Report Only		
MRSL Parameters	Not Tested	Comply	Report Only		
Legal Compliance	Not Tested	Not Tested	Not Tested		
Specifications	ZDHC Wastewater Guidelines Version 2.1 (November 2022)				

For and on behalf of TÜV Rheinland (Shanghai) Co., Ltd.

2023-05-25

Carmen Yan / Department Manager

Date Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.



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Result Summary:

Conventional Parameters	Incoming Water	Discharged Wastewater	Raw Wastewater	Sludge
pH Value	-	-	-	Report Only
Anion - Cyanide	-	-	-	Report Only
Heavy Metals	-	Aspirational	-	Report Only
Leachate Heavy Metals	-	-	-	Report Only
%Solids	-	-	-	Report Only
Paint Filter Test	-	-	-	Report Only
Fecal Coliform	-	-	-	Report Only
Manufacturing Restricted Substances List (MRSL)	Incoming Water	Discharged Wastewater	Raw Wastewater	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers	-	-	Comply	Report Only
Anti-Microbials & Biocides	-	-	Comply	-
Chlorinated Paraffins	-	-	Comply	-
Chlorobenzenes and Chlorotoluenes	-	-	Comply	Report Only
Chlorophenols	-	-	Comply	-
Dyes - Carcinogenic or Equivalent Concern	-	-	Comply	-
Dyes - Disperse (Sensitizing)	-	-	Comply	-
Dyes - Navy Blue Colorant	-	-	Comply	-
Flame Retardants	-	-	Comply	-
Glycols / Glycol Ethers	-	-	Comply	-
Halogenated Solvents	-	-	Comply	-
Organotin Compounds	-	-	Comply	-
Other / Miscellaneous Chemicals	-	-	Comply	-
Perfluorinated and Polyfluorinated Chemicals (PFCs)	-	-	Comply	-
Phthalates - Including all other esters of phthalic acid	-	-	Comply	-
Polycyclic Aromatic Hydrocarbons (PAHs)	-	-	Comply	Report Only
Restricted Aromatic Amines(Cleavable from Azo)	-	-	Comply	-
UV Absorbers	-	-	Comply	-
Volatile Organic Compounds (VOC)	-	-	Comply	-

Note:

Aspirational = Fulfill Aspirational Limit Foundational = Fulfill Foundational Limit Comply = Comply with ZDHC Limit

- = Not Tested

Progressive = Fulfill Progressive Limit Exceed = Exceed Foundational Limit Not Comply = Not Comply with ZDHC Limit



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Material List:

Field ID Sample Type		Sample Description		
D001	Discharge	Discharged Wastewater (Indirect Discharge)*		
R001	Raw	Raw Wastewater*		
S001	Sludge	Sludge (Type A)*		

Notes:

* Discharge Wastewater: Wastewater that is released from a supplier, either directly to the environment (including but

not limited to: water bodies, land application/irrigation), or to a wastewater treatment system

beyond the supplier's property boundaries.

* **Direct Discharge:** A point source that discharges wastewater to stream, lakes, oceans, or other receiving bodies.

Distribution of wastewater onto land is also considered a type of direct discharge. Municipal bodies and suppliers that introduce pollution through a defined conveyance or system such as

outlet pipes are direct dischargers.

* Indirect Discharge: The discharge of wastewater through a sanitary or industrial wastewater sewer system to a

central or common effluent treatment plant (CETP) not owned and/ or operated by the supplier

discharging the pollutants.

* Raw Wastewater: Wastewater that has not yet been treated prior to direct or indirect discharge, or recycling

(Untreated Wastewater) efforts. This wastewater therefore does not meet the quality standards for beneficial use.

* Sludge: The solid or semi-solid material separated during the wastewater treatment process, including

septic and Zero Liquid Discharge (ZLD) systems.

* Incoming Water: Water that is supplied to a manufacturing process, usually withdrawn from surface water

bodies, groundwater, collected from rainfall, supplied by municipalities, etc.

Type A: Offsite Incineration at > 1000°C.

Type B: Landfill with Significant Control Measures.

Type C: Building Products Processed at > 1000°C.

Type D: Landfill with Limited Control Measures.

Type E Offsite Incineration and Building Products Processed at < 1000°C.

Type F: Landfill with No Control Measures.

Type G: Land Application.



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1.pH Value

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
pH Value	PH	HJ 962	NONE	NA	6.86
Conclusion	·				Report Only

Abbreviation: NA = Not Applicable

Remark:

Parameter	ZDHC Wastewater Limit				
Parameter	Foundational	Progressive	Aspirational		
pH Value	6-9				

Parameter	ZDHC Sludge Limit							
Sludge Type	А	В	С	D	Е	F	G	
pH Value	Report Only	Report Only	5-11	5-11	5-11	6.5-9	6.5-9	



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2.Anion - Cyanide

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Anion - Cyanide	57-12-5	HJ 745	mg/kg	10	< RL
Conclusion					Report Only

Abbreviation: < =less than

RL =reporting limit mg/L = milligram per liter mg/kg = milligram per kilogram

Remark:

Parameter	ZDHC Limit for Wastewater (mg/L)					
Parameter	Foundational	Progressive	Aspirational			
Anion - Cyanide	0.2	0.1	0.05			

Parameter	ZDHC Sludge Limit (mg/kg)						
Sludge Type	A B C D E F						G
Anion - Cyanide	Sample and Report only		100	85	70	70	70



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3.Heavy Metals

				Sample No.	D001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Arsenic (As)	Arsenic	US EPA 6020a	mg/L	0.001	< RL
Cadmium (Cd)	Cadmium	US EPA 6020a	mg/L	0.001	< RL
Chromium (Cr VI)	Chromium VI	GB 7467	mg/L	0.001	< RL
Lead (Pb)	Lead	US EPA 6020a	mg/L	0.001	< RL
Mercury (Hg)	Mercury	US EPA 6020a	mg/L	0.001	< RL
Conclusion					Fulfill Aspirational Limit

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Antimony (Sb)	Antimony	HJ 803	mg/kg	5	< RL
Chromium (Cr, total)	Chromium Total	HJ 803	mg/kg	50	84
Cobalt (Co)	Cobalt	US EPA 7196	mg/kg	400	< RL
Copper (Cu)	Copper	HJ 803	mg/kg	50	< RL
Nickel (Ni)	Nickel	HJ 803	mg/kg	20	25
Silver (Ag)	Silver	US EPA 6020b	mg/kg	50	< RL
Zinc (Zn)	Zinc	HJ 803	mg/kg	400	< RL
Arsenic (As)	Arsenic	HJ 803	mg/kg	5	10
Cadmium (Cd)	Cadmium	HJ 803	mg/kg	1	< RL
Chromium (Cr VI)	Chromium VI	US EPA 7196	mg/kg	20	< RL
Lead (Pb)	Lead	HJ 803	mg/kg	5	30
Mercury (Hg)	Mercury	US EPA 6020b	mg/kg	1	< RL
Barium (Ba)	Barium	US EPA 6020b	mg/kg	200	252
Selenium (Se)	Selenium	US EPA 6020b	mg/kg	5	< RL
Conclusion	· · · · · · · · · · · · · · · · · · ·		'		Report Only

Abbreviation: < =less than

RL =reporting limit mg/L = milligram per liter mg/kg = milligram per kilogram



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Remark:

	ZDHC Lim	it for Wastewa	iter (mg/L)	ZDHC Limit for Sludge (mg/kg)			
Parameter	Foundational	Progressive	Aspirational	Disposal pathway A-F	Disposal pathway G	Total Metals Threshold Values**	
Antimony (Sb)	0.1	0.05	0.01		Sample and report only	12	
Chromium (Cr, total)	0.2	0.1	0.05		3000	100	
Cobalt (Co)	0.05	0.02	0.01		Sample and report only	1600	
Copper (Cu)	1	0.5	0.25		4300	200	
Nickel (Ni)	0.2	0.1	0.05		420	70	
Silver (Ag)	0.1	0.05	0.005		Sample and report only	100	
Zinc (Zn)	5.0	1.0	0.5	Report only	7500	1000	
Arsenic (As)	0.05	0.01	0.005		75	10	
Cadmium (Cd)	0.1	0.05	0.01		85	3	
Chromium (Cr VI)	0.05	0.005	0.001		50	50	
Lead (Pb)	0.1	0.05	0.01		840	10	
Mercury (Hg)	0.01	0.005	0.001		57	1	
Barium (Ba)	Sam	ple and report	only		Sample and report only	700	
Selenium (Se)	Sam	ple and report	only		100	10	
Tin (Sn)	Sam	ple and report	only		NA	NA	

^{*} For polyester wet processing facilities Foundational, Progressive and Aspirational limits do not yet apply (unless required by law or voluntarily adopted).

^{**} if the Total Metals for Sludge exceeded the Total Metals Threshold Values (mg/kg) given in this table, proceed with Leachate Heavy Metal.



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4.Leachate Heavy Metals

				Sample No.	S001
Parameter	Parameter	Test Method	Unit	RL	Result
	Code				
Arsenic (As)	Arsenic	US EPA 1311, US EPA	mg/L	0.5	< RL
		3051A, US EPA 200.8			
Lead (Pb)	Lead	US EPA 1311, US EPA	mg/L	0.5	< RL
, ,		3051A, US EPA 200.8			
Conclusion			•		Report Only

Abbreviation: < = less than

RL = reporting limit mg/L = milligram per liter

Remark:

Parameter		ZDHC Sludge Limit (mg/L)						
Sludge Type	Α	В	С	D	Е	F	G	
Arsenic (As)			5	2.75	0.5	0.5	0.5	
Cadmium (Cd)			1	0.58	0.15	0.15	0.15	
Chromium (Cr, total)			15	10	5	5	5	
Lead (Pb)			5	2.75	0.5	0.5	0.5	
Antimony (Sb)				7.8	0.6	0.6	0.6	
Barium (Ba)				67.5	35	35	35	
Cobalt (Co)	Report	Only if	80	80	80	80	80	
Copper (Cu)	Required	I to Test	25	17.5	10	10	10	
Nickel (Ni)			20	11.75	3.5	3.5	3.5	
Selenium (Se)			1	0.75	0.5	0.5	0.5	
Silver (Ag)			5	5	5	5	5	
Zinc (Zn)			250	150	50	50	50	
Chromium (Cr VI)				3.75	2.5	2.5	2.5	
Mercury (Hg)			0.2	0.125	0.05	0.05	0.05	



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5.%Solids

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
%Solids	%Solids	HJ 613 at 105°C	%	NA	76.3
Conclusion			•		Report Only

Abbreviation: % = percentage NA = Not Applicable

Remark:

Parameter		ZDHC Sludge Limit							
Sludge Type	Α	A B C D E F G							
%Solids		Sample and Report Only							



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6.Paint Filter Test

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Paint Filter Test	Free Liquid	EPA 9095B	NA	NA	Not visible
Conclusion					Report Only

Abbreviation: NA = Not Applicable

Remark:

Parameter		ZDHC Sludge Limit						
Sludge Type	Α	В	С	D	Е	F	G	
Paint Filter Test	Sample	e and Repo	port Only Pass Paint Filter Test				Sample and Report Only	



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7.Fecal Coliform

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Fecal Coliform	Fecal Coliform	EPA 1681	MPN/g	10	< RL
Conclusion					Report Only

Abbreviation: MPN/g = Most Probable Number per gram

Remark:

Parameter		ZDHC Sludge Limit (MPN/g)							
Sludge Type	A	A B C D E F G							
Fecal Coliform		Sample	1000	1000					



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8. Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Nonylphenol (NP), mixed isomers	104-40-5 25154-52-3 11066-49-2 84852-15-3	ISO 18857-2	μg/L	5	5	< RL
Octylphenol (OP), mixed isomers	140-66-9 1806-26-4 27193-28-8	ISO 18857-2	µg/L	5	5	< RL
Nonylphenol ethoxylates (NPEO)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	ISO 18254-1, ASTM D7065	µg/L	5	5	< RL
Octylphenol ethoxylates (OPEO)	9002-93-1 9036-19-5 68987-90-6	ISO 18254-1, ASTM D7065	μg/L	5	5	< RL
Conclusion			·			Comply

				Sample No.	S001		
Parameter	Parameter Code	Test Method	Unit	RL	Result		
Nonylphenol (NP), mixed isomers	104-40-5 25154-52-3 11066-49-2 84852-15-3	ISO 18857-2	mg/kg	0.2	< RL		
Octylphenol (OP), mixed isomers	140-66-9 1806-26-4 27193-28-8	ISO 18857-2	mg/kg	0.2	< RL		
Nonylphenol ethoxylates (NPEO)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	ISO 18254-1, ASTM D7065	mg/kg	0.2	< RL		
Octylphenol ethoxylates (OPEO)	9002-93-1 9036-19-5 68987-90-6	ISO 18254-1, ASTM D7065	mg/kg	0.2	< RL		
Conclusion							

Abbreviation: < =less than

RL =reporting limit μg/L = microgram per liter mg/kg = milligram per kilogram



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Remark:

Parameter		ZDHC Sludge Limit (mg/kg)						
Sludge Type	Α	A B C D E F G						
AP & APEOs	Sample	Sample and Report Only			0.4	0.4	0.4	



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9.Anti-Microbials & Biocides

					Sample No.	R001
Parameter	Parameter	Test Method	Unit	RL	ZDHC Limit	Result
	Code					
o-Phenylphenol (+Salts)	90-43-7	US EPA 8270E	μg/L	100	100	< RL
Triclosan	3380-34-5	US EPA 8270E	µg/L	100	100	< RL
Permethrin	Multiple	US EPA 8270E	μg/L	500	500	< RL
Conclusion			•			Comply

Abbreviation: < = less than

RL =reporting limit



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10.Chlorinated Paraffins

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Medium-chain Chlorinated paraffins (MCCPs) (C14-C17)	85535-85-9	US EPA 3510, ISO 18219-2	μg/L	5	500	< RL
Short-chain Chlorinated paraffins (SCCPs) (C10-C13)	85535-84-8	US EPA 3510, ISO 18219-1	μg/L	5	25	< RL
Conclusion	•			1		Comply

Abbreviation: < = less than

RL =reporting limit



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11. Chlorobenzenes and Chlorotoluenes

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
1,2-Dichlorobenzene	95-50-1	US EPA 8260D, 8070E	µg/L	0.2	0.2	< RL
Other isomers of mono, di-, tri-, tetra-, penta- and hexa- Chlorobenzene and mono, di- tri-, tetra- and penta-Chlorotoluene	Multiple	US EPA 8260D, 8070E	µg/L	0.2	0.2	< RL
Conclusion		•	•		,	Comply

				Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
mono, di- tri-, tetra- and penta-Chlorotoluene	Multiple	HJ 605	mg/kg	0.1	< RL
Conclusion					Report Only

Abbreviation: < =less than

RL =reporting limit μg/L = microgram per liter mg/kg = milligram per kilogram

Remark:

Parameter	ZDHC Sludge Limit (mg/kg)									
Sludge Type	А	A B C D E F G								
mono, di- tri-, tetra- and penta-Chlorotoluene	Sample and Report only			0.2	0.2	0.2	0.2			



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12.Chlorophenols

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
2-Chlorophenol	95-57-8	US EPA 8270E	μg/L	0.5	0.5	< RL
3-chlorophenol	108-43-0	US EPA 8270E	μg/L	0.5	0.5	< RL
4-chlorophenol	106-48-9	US EPA 8270E	μg/L	0.5	0.5	< RL
2,3-Dichlorophenol	576-24-9	US EPA 8270E	μg/L	0.5	0.5	< RL
2,4-Dichlorophenol	120-83-2	US EPA 8270E	μg/L	0.5	0.5	< RL
2,5-Dichlorophenol	583-78-8	US EPA 8270E	μg/L	0.5	0.5	< RL
2,6-Dichlorophenol	87-65-0	US EPA 8270E	μg/L	0.5	0.5	< RL
3,4-Dichlorophenol	95-77-2	US EPA 8270E	μg/L	0.5	0.5	< RL
3,5- Dichlorophenol	591-35-5	US EPA 8270E	μg/L	0.5	0.5	< RL
2,3,4-Trichlorophenol	15950-66-0	US EPA 8270E	μg/L	0.5	0.5	< RL
2,3,5-Trichlorophenol	933-78-8	US EPA 8270E	μg/L	0.5	0.5	< RL
2,3,6-Trichlorophenol	933-75-5	US EPA 8270E	μg/L	0.5	0.5	< RL
2,4,5-Trichlorophenol	95-95-4	US EPA 8270E	μg/L	0.5	0.5	< RL
2,4,6-Trichlorophenol	88-06-2	US EPA 8270E	μg/L	0.5	0.5	< RL
3,4,5-Trichlorophenol	609-19-8	US EPA 8270E	μg/L	0.5	0.5	< RL
2,3,4,5- Tetrachlorophenol	4901-51-3	US EPA 8270E	µg/L	0.5	0.5	< RL
2,3,4,6- Tetrachlorophenol	58-90-2	US EPA 8270E	μg/L	0.5	0.5	< RL
2,3,5,6- Tetrachlorophenol	935-95-5	US EPA 8270E	μg/L	0.5	0.5	< RL
Pentachlorophenol	87-86-5	US EPA 8270E	μg/L	0.5	0.5	< RL
Conclusion			•			Comply

Abbreviation: < =less than

RL =reporting limit



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13.Dyes - Carcinogenic or Equivalent Concern

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
C.I. Direct Black 38	1937-37-7	ISO 16373	μg/L	500	500	< RL
C.I. Direct Blue 6	2602-46-2	ISO 16373	μg/L	500	500	< RL
C.I. Acid Red 26	3761-53-3	ISO 16373	μg/L	500	500	< RL
C.I. Basic Red 9	569-61-9	ISO 16373	μg/L	500	500	< RL
C.I. Direct Red 28	573-58-0	ISO 16373	μg/L	500	500	< RL
C.I. Basic Violet 14	632-99-5	ISO 16373	μg/L	500	500	< RL
C.I. Disperse Blue 1	2475-45-8	ISO 16373	μg/L	500	500	< RL
C.I. Disperse Blue 3	2475-46-9	ISO 16373	μg/L	500	500	< RL
C.I. Basic Blue 26 (with Michler's Ketone > 0.1%)	2580-56-5	ISO 16373	μg/L	500	500	< RL
C.I Basic Green 4 (malachite green chloride)	569-64-2	ISO 16373	µg/L	500	500	< RL
C.I Basic Green 4 (malachite green oxalate)	2437-29-8	ISO 16373	µg/L	500	500	< RL
C.I Basic Green 4 (malachite green)	10309-95-2	ISO 16373	μg/L	500	500	< RL
Disperse Orange 11	82-28-0	ISO 16373	μg/L	500	500	< RL
Basic violet 3 with >0.1% of Michler's Ketone	548-62-9	ISO 16373	μg/L	500	500	< RL
C.I. Acid Viiolet 49	1694-09-3	ISO 16373	μg/L	500	500	< RL
Conclusion						Comply

Abbreviation: < =less than

RL =reporting limit



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14.Dyes - Disperse (Sensitizing)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Disperse Yellow 1	119-15-3	ISO 16373	μg/L	50	50	< RL
Disperse Blue 102	12222-97-8	ISO 16373	μg/L	50	50	< RL
Disperse Blue 106	12223-01-7	ISO 16373	μg/L	50	50	< RL
Disperse Yellow 39	12236-29-2	ISO 16373	μg/L	50	50	< RL
Disperse Orange 37/59/76	13301-61-6	ISO 16373	μg/L	50	50	< RL
Disperse Brown 1	23355-64-8	ISO 16373	μg/L	50	50	< RL
Disperse Orange 1	2581-69-3	ISO 16373	μg/L	50	50	< RL
Disperse Yellow 3	2832-40-8	ISO 16373	μg/L	50	50	< RL
Disperse Red 11	2872-48-2	ISO 16373	μg/L	50	50	< RL
Disperse Red 1	2872-52-8	ISO 16373	μg/L	50	50	< RL
Disperse Red 17	3179-89-3	ISO 16373	μg/L	50	50	< RL
Disperse Blue 7	3179-90-6	ISO 16373	μg/L	50	50	< RL
Disperse Blue 26	3860-63-7	ISO 16373	μg/L	50	50	< RL
Disperse Yellow 49	54824-37-2	ISO 16373	μg/L	50	50	< RL
Disperse Blue 35	12222-75-2	ISO 16373	μg/L	50	50	< RL
Disperse Blue 124	61951-51-7	ISO 16373	μg/L	50	50	< RL
Disperse Yellow 9	6373-73-5	ISO 16373	μg/L	50	50	< RL
Disperse Orange 3	730-40-5	ISO 16373	μg/L	50	50	< RL
Disperse Blue 35	56524-77-7	ISO 16373	μg/L	50	50	< RL
Conclusion			'			Comply

Abbreviation: < =less than

RL =reporting limit μg/L = microgram per liter



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15.Dyes - Navy Blue Colorant

					Sample No.	R001
Parameter	Parameter	Test Method	Unit	RL	ZDHC Limit	Result
	Code					
Component 1: C39H23CI-CrN7O12S 2Na	118685-33-9	ISO 16373	μg/L	500	500	< RL
Component 2: C46H-30CrN10O20S2 3Na	Not	ISO 16373	μg/L	500	500	< RL
	Allocated					
Conclusion						Comply

Abbreviation: < = less than

RL = reporting limit μg/L = microgram per liter



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16.Flame Retardants

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Tris-(2-chloro-ethyl)- phosphate (TCEP)	115-96-8	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Decabromodiphenyl ether (DecaBDE)	1163-19-5	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Tri-(2,3-di-bromo-propyl)- phosphate (TRIS)	126-72-7	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Octabromodiphenyl ether (OctaBDE)	32536-52-0	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Bis-(2,3-di-bromo- propyl)-phosphate (BIS)	5412-25-9	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Tris(1- aziridinyl)phosphine oxide) (TEPA)	545-55-1	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Polybromobiphenyls (PBB)	59536-65-1	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Tetra-bromo-bisphenol-A (TBBPA)	79-94-7	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Hexabromocyclododeca ne(HBCDD)	3194-55-6	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
2,2-bis(bromomethyl)-1,3 -propanediol (BBMP)	3296-90-0	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Tris-(1,3-di-chloro-iso- propyl)-phosphate (TDCP)	13674-87-8	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Tris-(2-chloro-1- methylethyl) phosphate (TCPP)	13674-84-5	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Decabromobiphenyl (DecaBB)	13654-09-6	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Dibromobiphenyls (DiBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Octabromobiphenyls (OctaBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Tetrabromobisphenol A bis(dibromopropyl ether)	21850-44-2	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Hexabromodiphenyl ether (hexaBDE)	36483-60-0	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Monobromobiphenyls (MonoBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Monobromodiphenylethe rs Multiple (MonoBDEs)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Nonabromobiphenyls (NonaBB)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Nonabromodiphenyl ether (NonaBDE)	63936-56-1	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Tetrabromodiphenyl ethers (TetraBDE)	5436-43-1	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL



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Tribromodiphenylethers (TriBDEs)	Multiple	US EPA 8270, ISO 22032, US EPA 527,US EPA 8321B	μg/L	5	25	< RL
Boric acid	10043-35-3; 11113-50-1	EPÁ 6020a	μg/L	20	100	< RL
Diboron trioxide	1303-86-2	EPA 6020a	μg/L	20	100	< RL
Disodium octaborate	12008-41-2	EPA 6020a	μg/L	20	100	< RL
Disodium tetraborate anhydrous	1303-96-4; 1330-43-4	EPA 6020a	μg/L	20	100	< RL
Tetraboron disodium heptaoxide, hydrate	12267-73-1	EPA 6020a	μg/L	20	100	< RL
Conclusion						Comply

Abbreviation: < =less than

RL =reporting limit



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17. Glycols / Glycol Ethers

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Bis(2-methylethyl)ether	111-96-6	US EPA 8270E	μg/L	50	50	< RL
2-Ethoxyethanol	110-80-5	US EPA 8270E	μg/L	50	50	< RL
2-Ethoxyethyl acetate	111-15-9	US EPA 8270E	μg/L	50	50	< RL
Ethylene glycol dimethyl ether	110-71-4	US EPA 8270E	μg/L	50	50	< RL
2-Methoxyethanol	109-86-4	US EPA 8270E	μg/L	50	50	< RL
2-Methoxyethyl acetate	110-49-6	US EPA 8270E	μg/L	50	50	< RL
2-Methoxypropyl acetate	70657-70-4	US EPA 8270E	μg/L	50	50	< RL
Triethylene glycol dimethyl ether	112-49-2	US EPA 8270E	μg/L	50	50	< RL
Conclusion						Comply

Abbreviation: < =less than

RL =reporting limit



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18. Halogenated Solvents

					Sample No.	R001
Parameter	Parameter	Test Method	Unit	RL	ZDHC Limit	Result
	Code					
1,2-dichloroethane	107-06-2	US EPA 8260D	μg/L	1	1	< RL
Methylene chloride	75-09-2	US EPA 8260D	μg/L	1	1	< RL
Trichloroethylene	79-01-6	US EPA 8260D	μg/L	1	1	< RL
Tetrachloroethylene	127-18-4	US EPA 8260D	μg/L	1	1	< RL
Conclusion				•		Comply

Abbreviation: < =less than

RL =reporting limit



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19. Organotin Compounds

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Mono-,di-and tri-methyltin derivatives	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Mono-,di-and tri-butyltin derivatives	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Mono-,di-and tri-phenyltin derivatives	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Mono-,di-and tri-octyltin derivatives	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Dipropyltin compounds (DPT)	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Tetrabutyltin compounds (TeBT)	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Tripropyltin Compounds (TPT)	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Tetraoctyltin compounds (TeOT)	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Tricyclohexyltin (TCyHT)	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Tetraethyltin Compounds (TeET)	Multiple	ISO 17353	μg/L	0.01	0.01	< RL
Conclusion	1		•			Comply

Abbreviation: < =less than

RL =reporting limit



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20.Other / Miscellaneous Chemicals

					Sample No.	R001	
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result	
AEEA [2-(2- aminoethylamino) ethanol]	111-41-1	Liquid extraction, LC- MS-MS	μg/L	500	500	< RL	
Bisphenol A	80-05-7	Liquid extraction, LC- MS-MS	μg/L	10	10	< RL	
Thiourea	62-56-6	Liquid extraction, LC- MS-MS	μg/L	50	50	< RL	
Quinoline	91-22-5	Liquid extraction, LC- MS-MS	μg/L	50	50	< RL	
Borate, zinc salt	12767-90-7	EPA 6020a	μg/L	50	100	B <rl,zn 74</rl,zn 	
Conclusion							

Abbreviation: < = less than

RL = reporting limit μg/L = microgram per liter



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21.Perfluorinated and Polyfluorinated Chemicals (PFCs)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Perfluorooctane sulfonate (PFOS) and related substances, Perfluorooctanoic acid (PFOA)	Multiple	EPA 8270, PFCs: LC- MS-MS FTOH: GC-MS	μg/L	0.01	0.01	< RL
Perfluorooctanoic acid (PFOA) related substances	Multiple	EPA 8270, PFCs: LC- MS-MS FTOH: GC-MS	μg/L	1	1	< RL
Conclusion	•					Comply

Abbreviation: < =less than

RL =reporting limit



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22. Phthalates - Including all other esters of phthalic acid

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Di(ethylhexyl) phthalate (DEHP)	117-81-7	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-iso-decyl phthalate (DIDP)	26761-40-0	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-Isononyl Phthalate (DINP)	28553-12-0	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-n-butyl phthalate (DBP)	84-74-2	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Butyl benzyl phthalate (BBP)	85-68-7	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Dinonyl phthalate (DNP)	84-76-4	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Diethyl phthalate (DEP)	84-66-2	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-n-propyl phthalate (DPRP)	131-16-8	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-isobutyl phthalate (DIBP)	84-69-5	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-cyclohexyl phthalate (DCHP)	84-61-7	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-iso-octyl phthalate (DIOP)	27554-26-3	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
1,2-benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)	68515-42-4; 68515-50-4	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6; 84777-06-0	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Di-n-pentylphalates	131-18-0	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Diisopentylphthalates	605-50-5	US EPA 8270E, ISO 18856	μg/L	10	10	< RL
Conclusion		<u> </u>				Comply

Abbreviation: < =less than

RL =reporting limit



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23. Polycyclic Aromatic Hydrocarbons (PAHs)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Benzo(a)pyrene	50-32-8	US EPA 8270E	μg/L	1	1	< RL
Anthracene	120-12-7	US EPA 8270E	μg/L	1	1	< RL
Pyrene	129-00-0	US EPA 8270E	μg/L	1	1	< RL
Benzo[ghi]perylene	191-24-2	US EPA 8270E	μg/L	1	1	< RL
Benzo(e)pyrene	192-97-2	US EPA 8270E	μg/L	1	1	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	US EPA 8270E	μg/L	1	1	< RL
Benzo(j)fluoranthene	205-82-3	US EPA 8270E	μg/L	1	1	< RL
Benzo[b]fluoranthene	205-99-2	US EPA 8270E	μg/L	1	1	< RL
Fluoranthene	206-44-0	US EPA 8270E	μg/L	1	1	< RL
Benzo[k]fluoranthene	207-08-9	US EPA 8270E	μg/L	1	1	< RL
Acenaphthylene	208-96-8	US EPA 8270E	μg/L	1	1	< RL
Chrysene	218-01-9	US EPA 8270E	μg/L	1	1	< RL
Dibenz(a,h)anthracene	53-70-3	US EPA 8270E	μg/L	1	1	< RL
Benzo[a]anthracene	56-55-3	US EPA 8270E	μg/L	1	1	< RL
Acenaphthene	83-32-9	US EPA 8270E	μg/L	1	1	< RL
Phenanthrene	85-01-8	US EPA 8270E	μg/L	1	1	< RL
Fluorene	86-73-7	US EPA 8270E	μg/L	1	1	< RL
Naphthalene	91-20-3	US EPA 8270E	μg/L	1	1	< RL
Conclusion	•					Comply



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			,	Sample No.	S001
Parameter	Parameter Code	Test Method	Unit	RL	Result
Benzo(a)pyrene	50-32-8	HJ 805-2016	mg/kg	0.2	< RL
Anthracene	120-12-7	HJ 805-2016	mg/kg	0.2	< RL
Pyrene	129-00-0	HJ 805-2016	mg/kg	0.2	< RL
Benzo[ghi]perylene	191-24-2	HJ 805-2016	mg/kg	0.2	< RL
Benzo(e)pyrene	192-97-2	HJ 805-2016	mg/kg	0.2	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	HJ 805-2016	mg/kg	0.2	< RL
Benzo(j)fluoranthene	205-82-3	HJ 805-2016	mg/kg	0.2	< RL
Benzo[b]fluoranthene	205-99-2	HJ 805-2016	mg/kg	0.2	< RL
Fluoranthene	206-44-0	HJ 805-2016	mg/kg	0.2	< RL
Benzo[k]fluoranthene	207-08-9	HJ 805-2016	mg/kg	0.2	< RL
Acenaphthylene	208-96-8	HJ 805-2016	mg/kg	0.2	< RL
Chrysene	218-01-9	HJ 805-2016	mg/kg	0.2	< RL
Dibenz(a,h)anthracene	53-70-3	HJ 805-2016	mg/kg	0.2	< RL
Benzo[a]anthracene	56-55-3	HJ 805-2016	mg/kg	0.2	< RL
Acenaphthene	83-32-9	HJ 805-2016	mg/kg	0.2	< RL
Phenanthrene	85-01-8	HJ 805-2016	mg/kg	0.2	< RL
Fluorene	86-73-7	HJ 805-2016	mg/kg	0.2	< RL
Naphthalene	91-20-3	HJ 805-2016	mg/kg	0.2	< RL
Conclusion			•	1	Report Only

Abbreviation: < =less than

RL =reporting limit µg/L = microgram per liter mg/kg = milligram per kilogram

Remark:

Parameter	ZDHC Sludge Limit (mg/kg)								
Sludge Type	А	A B C D E F G							
PAHs	Sample and Report only			0.2	0.2	0.2	0.2		



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24.Restricted Aromatic Amines(Cleavable from Azo)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
4,4'- diaminodiphenylmethane	101-77-9	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
4,4'-oxydianiline	101-80-4	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
4-chloroaniline	106-47-8	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
3,3'-Dimethoxybenzidine	119-90-4	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
3,3'-Dimethylbenzidine	119-93-7	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
6-Methoxy-m-toluidine	120-71-8	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
2,4,5-trimethylaniline	137-17-7	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
4,4'-Thiodianiline	139-65-1	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
4-aminoazobenzene	60-09-03	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL



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4-methoxy-m- phenylenediamine	615-05-4	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
4,4'-Methylenedi-o- toluidine	838-88-0	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
2,6-xylidine	87-62-7	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
o-anisidine	90-04-0	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
2-naphthylamine	91-59-8	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
3,3'-Dichlorobenzidine	91-94-1	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
4-Aminobiphenyl	92-67-1	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
benzidine	92-87-5	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
o-toluidine	95-53-4	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
2,4-xylidine	95-68-1	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	
4-chloro-o-toluidine	95-69-2	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL	



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4-methyl-m- phenylenediamine	95-80-7	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
o-Aminoazotoluene	97-56-3	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
5-nitro-o-toluidine	99-55-8	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
4-chloro-o-toluidinium chloride	3165-93-3	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
2-Naphthylammoniuma cetate	553-00-4	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
4-methoxy-m-phenylene diammonium sulphate	39156-41-7	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
2,4,5-trimethylaniline hydrochloride	21436-97-5	Reduction, EPA 8270 and ISO 14362-1 and ISO 14362-3 (if needed) GC/MS and LC/ MS/MS	μg/L	0.1	0.1	< RL
Conclusion						Comply

Abbreviation: < =less than

RL =reporting limit μg/L = microgram per liter



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25.UV Absorbers

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
2-(2H-benzotriazol-2-yl)- 4-(tert-butyl)-6-(sec- butyl) phenol (UV-350)	36437-37-3	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	μg/L	100	100	< RL
2-(2H-benzotriazol-2-yl)- 4,6-ditertpentylphenol (UV-328)	25973-55-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	μg/L	100	100	< RL
2-benzotriazol-2-yl-4,6- di-tert-butylphenol (UV- 320)	3846-71-7	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	μg/L	100	100	< RL
2,4-Di-tert-butyl-6-(5- chlorobenzotriazole-2-yl) phenol (UV-327)	3864-99-1	US EPA 8270, ISO 22032, US EPA 527, US EPA 8321B	μg/L	100	100	< RL
Conclusion				•		Comply

Abbreviation: < = less than

RL = reporting limit μg/L = microgram per liter



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26. Volatile Organic Compounds (VOC)

					Sample No.	R001
Parameter	Parameter Code	Test Method	Unit	RL	ZDHC Limit	Result
Benzene	71-43-2	ISO 11423-1	μg/L	1	1	< RL
Xylene	1330-20-7	ISO 11423-1	μg/L	1	1	< RL
o-cresol	95-48-7	ISO 11423-1	μg/L	1	1	< RL
p-cresol	106-44-5	ISO 11423-1	μg/L	1	1	< RL
m-cresol	108-39-4	ISO 11423-1	μg/L	1	1	< RL
Conclusion	1				•	Comply

Abbreviation: < =less than

RL =reporting limit



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Sampling Point Indication (Map)

GPS Map

Discharged Wastewater: 30.956898, 120.635089 Raw Wastewater: 30.957007, 120.635752 Sludge: 30.956309, 120.635401 Incoming water: 30.956980, 120.637120





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Sampling Photo



Factory Gate



Factory Layout



Factory Other Photo



Factory Other Photo



Discharged Wastewater



Discharged Wastewater



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Sampling Photo



Raw Wastewater



Raw Wastewater



Sludge



Sludge



Incoming Water



Incoming Water



General Terms and Conditions of Business of TÜV Rheinland in Greater China

Scope
These General Terms and Conditions of Business of TÜV Rhenland in Greater China ("CTCB") is made between the client and one or more member entities of TÜV Rhenland. In Greater China as applicable as the case may be ("TÜV Rhenland"). The Greater China here fere first Inhalland China, Hong Kong and Taiwan. The client hereof Includes:

a natural person capable to form legsly briding contracts under the applicable laws who concludes the contract not for the purpose of a daily use.

The contract of the purpose of a daily use.

The showing terms and conditions apply to agreed services including consultancy services, information, delevers and similar services as well as an actifically services and other secondary information, delevers and similar services as well as an actifically services and other secondary. Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly exclude. No standard contractal terms and conditions of the client of any nature shall not apply and shall hereby be expressly exclude. No standard contractal terms and conditions of the client all form part of the contract even if TÜV Rheinland does not explicitly object to them.

In the contact of an ongoing business reliativiship with the client, this CTCB shall also apply to individual case.

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

Coming into effect and duration of contracts

Coming into effect and duration of contracts

The contract shall once his offect for the agreed terms upon the quotation letter of TUV Rheinland or a separate contractual document being signed by both contracting parties, or upon the works requested by the client being care their parties of the contraction of the co

3.3

Scope of services

Scope of services

The scope and type of the services to be provided by TUV. Rhankand shall be specified in the contractually agreed services scope of TUV Rhankand exists, then the written confirmation of code by TUV. Rhankand shall be sopped to the scope of TUV Rhankand exists, then the written confirmation of orde by TUV Rhankand shall be decisive for the service to be provided. Unless otherwise agreed, services beyond the scope of the translation for the scope of the scope of the instance of the scope of the instance of the scope of the scope

4.3

particular, TÜV Rheinland hall assume no responsibility for the construction, selection of materials and assentity of installations examined, not be there used an application in accordance with regulations, unless these questions are expressly covered by the occurrance of the control of the case of the properties of the control of the case of the control of the control of the case of the ca

5.1 5.2

5.3

Performance periods/dates

The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TUR Perheland in writing, das hall not commence until the Internal Periods of the provided by the periods of the provided by the client. They shall not commence to TUR Perhelands.

Articles 5.1 and 5.2 also apply, even whole vegrees approval by the client, to all extensions of agreed periods/dates of performance not caused by TUR Perhelands.

Articles 5.1 and 5.2 also apply, even whole vegrees approval by the client, to all extensions of agreed periods/dates of performance not caused by TUR Perhelands are interested to the comment of the periods of the period of the periods of the perio

bite the client to comply with the legal and/or officially prescribed deadlines. TOV Rheinland urnes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing clically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.

provided in good time and at no cost to TUV Rheinland.

Bedgin document, applies, suality at the c. recessary for performance of the services shall be bedgin document, applies, analysis, at the c. recessary for performance of the services shall be bedgin of the common of the client must be undertaken in accordance with legic provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:

a) It has required statistically qualifications;
b) the product, service or management system to be certified complies with (in the common of the commo

Prices

If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price is sto TUV Rheinland valid at the time of performance. Unless otherwise agreed, work shall be invoiced according to the progress of the work.

Unless otherwise agreed, work shall be invoiced according to the progress of the work. If the execution of an order decides over more than one month and the value of the contract or the agreed fased price exceeds C2,200.00 or equivalent value in local currency, TUV Rheinland may demand payments on account or in establishments.

7.2 7.3

Payment terms

invoice amounts shall be due for payment within 20 days of the invoice date without deduction receipt of the micros. No discounts and receipts of the micros. No discounts and receipts of the micros and client microse and client microse. If VID Prelandand shall be resident to client desired interests at the building of the microse o

untry where TDV Rheirland is located. At the same sure, ILV internation in untriver damages, outsit the client default in payment of the invoice despite being granted a reasonable grace rout TDV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim regies for non-performance and relates to continue performance of the contract, under the contract of t

assets.

Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

TÜV Rheinland shall be entitled to demand appropriate advance payments.

TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the shall come into feel to purchase or the contract of the shall come into feel (print of notice of changes in fees). Then their lines remains under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.

Only legally established and undisputed claims may be offset against claims by TÜV Rheinland. TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client including but not limited to setoff against any fees paid by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

9.1

Any part of the work result ordered which is complete in itself may be presented by TUV Rheinland for acceptance as an installment. The client shall be obliged to accept it immediately. The client shall be obliged to accept it immediately. The client shall be obliged to accept it immediately. The client is not client shall be obliged to accept the client shall be acceptance within this period stating at least one furnimental breach of contract by TUV Rheinland. The client is not entitled to breaks exceptance due to inspirificant breach of contract by TUV. 9.2 9.3

9.4

The client is not entitled to instale acceptance due to insignment orderen or curieux by Livi Proheistand.

In excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.

During the Follow-Audit stage, if the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveitance subsky) or if the client Rheinland is entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage witatiosever or only a considerably lower damage than the above turns sum. Insolder as the client has undertaken in the contract to score services. TÜV Rheinland shall also be for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum. 9.5

9.6

10.1 10.2

Confidentiality

For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, reported, coursents, principa of the condition of the conditi

documentation purposes required by laws, regulations and the requirements of working procedures of TUP Rheinland. From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any thirt parties or use if for itself.

Copyrights and rights of use, publications

TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, caciutations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use

11.2 11.3

11.4

otherwise agreed by the parties in a sequence of the contraction of the contract of the contra

Liability of TÜV Rheinland

Liability of TÜV Rheinland irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractan obligations or bot, the faibility of TÜV Rheinland for all damages, losses and shall be initied to. (i) in the case of a contract win a fixed overall fee, three times the overall fee for the entire contract. (ii) in the case of a contract or that seed overall fee, three times the overall fee for the entire contract. (ii) in the case of a contract or the service of the entire contract has a fixed or the entire contract. (ii) in the case of a contract expressly charged on a time and related basis, a maximum of that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Note this damage above, in the event that the botal and accumulated liability circulated according to the Norpelin provisions neceeds 2.5 or that the botal and accumulated liability circulated according to the Norpelin provisions neceeds 2.5 or the necessary of the necessary of the necessary of the Norpelin provisions necessary. The initiation of liability according to intrice 121 above, and in or apply to damage and/or losses. The initiation of liability according to intrice 121 above, and in or apply to damage and/or losses. In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose for a person's devent's libracion of a local contraction of contract and the necessary of the circumstances described in article to 100 km and the liability according to according to the provision of the provision of the circumstances described in article 100 km and the liability according to according the second of the circumstances described in article 100 km and the liability according to according to the according the liability according to a consideration of the circumstances described in article 100 km and the liability according to the

12.2

breach (reasonably foreseeable damages), urless any of the circumsuress beaution in the 12-2 applies.

12-2 applies.

12-2 applies.

13-2 applies.

15-2 applies.

15-3 applies.

15-4 applies.

16-4 app 12.5

Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the clent.

The limitation periods for claims for damages shall be based on statutory provisions. None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client. 12.6 12.7

Export control

When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.

The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incured thereof by TÜV Rheinland.

Data protection notice

The client understands and agrees that TIV Rheinland processes personal data (including but not have a controlled to the control of the client understands and agrees that TIV Rheinland processes personal data (including but not have been also also as a controlled to the client controlled to the client controlled to the client controlled to the controlled to the client controlled to the controlled to the client controlled to the contro

Retention of test material and documentation

15.3

Retention of test material and documentation.

The test samples southhelds by the cent to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's openies. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.

If reference samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample for storage with be disclosed to the client in the outstion.

If reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or concumentations are the made available to TÜV Rheinland of making available the reference samples and/or concentrations are visit to the placed in storage at their premises, the reference samples and/or documentation, any liability claims for material and pecuniary damage resulting from the respective testing and certification bat is brought forward by the client against TÜV Rheinland shall be voloide.

Given the cost of the hardower and dispatch of the test samples for storage on the client's premises are cost of the hardower and dispatch of the test samples for storage on the client's premises are the costs of the hardower and dispatch of the test samples for storage on the client's premises are 15.4

15.5

16.2

Termination of the contract

Notehtstanding clause 3.3 of the GTCB, TUV Rheinland and the clear are entitled to terminate the contract in the entirety of, in the case of services combined in one contract, each of the contract and the clear of the contract individually and independently of the contraction of the remaining services with as (8) morehts rodge to the end of the contraction of the remaining services with as (8) morehts rodge to the end of the contraction of the remaining services with as (8) morehts rodge to the end of the contraction of the contr

entant in escape of a reference of monthing audite). Calculare the above accordingly.

Force Migure

Hardship

The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the

more corrows than could reasonably have been anticipated at the time of the conclusion of the Nobellhatandrop anapagin 1 of this Clause, where a Party proves that:

(ii) the continued performance of its contradual duties has become excessively orenous due to an event beyond in seasonable control which it could not reasonably have been expected to (b) it could not reasonably have been expected to (b) it could not reasonably have been expected for event on the control of the country of the country

Partial invalidity, written form, place of jurisdiction and dispute resolutio

19.2

Partial invalidity, written form, place of jurisdiction and dispute resolution
All amendments and supplements must be in withing in order to be effective. This also applies to
amendments and supplements must be in withing in order to be control to the control of the control o

If TUT Rhenland in question is legally registered and existing in Hosp governed by the laws of beneby agree that the contract and these terms and contracts what the contract and these terms and contracts with the contract and these terms and contracts shall be governed by the laws of brong force.

If TUT Rhenland in question is legally registered and existing in Hosp Kong, the contract and these terms and conditions shall be governed by the laws of brong Kong.

Unless otherwise stipulated in the contract, and hose terms and conditions or the execution thereof shall be settled friendly through negligations.

Unless otherwise stipulated in the contract, if no settlement or no agreement in respect of the the dispose that be submitted:

in the case of TUV Rhenland in question being legally registered and existing in the Popule's Republic of China. to Chran International Economic and Times Architection Commission (CETAC) to submitted. The exhitation shall take piace in Seling, Shanghai, Sherchen or Chonging as appropriately chosen by the claiming pales of the specific contraction by the claiming pales or table in accordance with its their current Risks of Arbitration. The arbitration shall take place in Taple. If an accordance with its their current Risks of Arbitration, Teach force when the Nobleco in Taple. If the Arbitration shall take place in Taple. If the Arbitration shall take place in Hope Kong. The decision of the reviewal arbitration shall take place in Hope Kong. The decision of the reviewal arbitration there are the reviewal the Arbitration shall take place in Hope Kong. The decision of the reviewal table force of Arbitration shall take place in Hope Kong. The decision of the reviewal table force of Arbitration shall take place in Hope Kong. The decision of the reviewal table force of Arbitration shall take place in Hope Kong.