

TEST REPORT NO.:
BR2202107 Rev. 0
Date: Sep 27 2022
Page:1 of 50
CLIENT DETAILS

Client Name: CUSTOMER
Client Contact: MARCELO LOBO
Telephone: 2134-7852
Email: marcelo.lobo@cea.com.br
Address: ALAMEDA ARAGUAIA
 1222
 1022
 BARUERI, SP 06455000
 BRAZIL

LABORATORY DETAILS

SGS Affiliate: SGS do Brasil Ltda.
Lab Contact: Alessandra Shimizu
Telephone: +55 11 3883-8867
Email: alessandra.shimizu@sgs.com
Address: Av. Piracema, 1341
 Barueri - São Paulo
 Brasil

SGS SAMPLE ID: BR2202107.002
FACTORY DETAILS

Factory Name: Vicunha Têxtil
Factory Contact: Carlos
Telephone: (85) 4008-1554
Email: aurelio@vicunha.com.br
Address: Av. Dr. Mendel Steinbruch, S/N - Km 9 - D. Industrial, Maracanaú - CE
Discharge Destination: To Municipal Waste Water Treatment Plant
Types of Mills: (1)Spinning, (3)Fabric Dyeing Finishing Washing, (4)Fabric Dyeing Finishing Printing, (9)Washing
Name of Municipal/Centralized ETP: CAGECE
Address of Municipal/Centralized ETP: CE- BRAZIL

SAMPLE AND TESTING DETAILS

Sampling Country: Brazil
Sampling Engineer: Marco (8F146506956)
Sample Time: 14:55
Sampling End Time: 15:20
No. of Samples: 11 Samples
Sample Descriptions: BRUTO - Wastewater before treatment
Sample Volume: 7000ML
Testing Institute: SGS do Brasil Ltda
Discharge Method: Indirect Discharge

SGS SAMPLE ID: BR2202107.003
SAMPLE AND TESTING DETAILS

Sample Time: 14:00
Sampling End Time: 14:50
No. of Samples: 11 Samples
Sample Descriptions: TRATADO - Discharged Wastewater
Sample Volume: 14000ML

SGS SAMPLE ID: BR2202107.004
SAMPLE AND TESTING DETAILS

Sample Time: 13:20
Sampling End Time: 13:30

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No. of Samples: 02 Samples
 Sample Descriptions: LODO - Mud

The informations above was provided by or on behalf of the customer.

Proposal Number: PR22-330637 REV01
 Sample Received Date: Jul 06 2022
 Test Performing Period: Jul 06 2022 - Aug 30 2022
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).
 Technical Responsibility : Alessandra Shimizu - Laboratory Manager CRQ 04245592

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OVERALL RESULTS

	Incoming Water	Raw Waste Water	Discharged Waste Water
Conventional Parameters/ Anion/ Metals	Not Tested	Exceed Foundational Limit	Fulfill Aspirational Limit
MRSL Parameters	Not Tested	Not Detected	Detected

REMARKS

1. This test document cannot be reproduced in any way, except in full content, without prior approval in writing by the laboratory.
2. The results shown in this test report refer only to the sampling and the sample(s) tested unless otherwise stated.
3. For indirect discharge, factory performance against ZDHC requirements for conventional parameters, anions and metals for Discharged Waste Water are for reference only. Actual factory performance on Discharged Waste Water should be compared with the discharged license of the factory.

Signed for and on behalf of
SGS do Brasil Ltda.



Alessandra Shimizu
Laboratory Manager CRQ 04245592

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RESULT SUMMARY

Factory Name:

Factory Address:

TEST ITEMS	Incoming Water	Raw Waste Water	Discharged Waste Water
Conventional Parameters			Please refer to the information in TEST RESULTS
Average Waste Water Flow §	N/A	N/A	X
Total Cyanide §	N/A	N/A	0
Sulfide. Methylene Blue Method §	N/A	N/A	0
Sulfite §	N/A	N/A	X
Ammonia Nitrogen §	N/A	N/A	X
Determination of AOX §	N/A	N/A	0
Biochemical Oxygen Demand (BOD) §	N/A	N/A	X
Chemical Oxygen Demand §	N/A	N/A	X
Total Coliforms §	N/A	N/A	X
Color §	N/A	N/A	X
Oil and Grease in Water (Gravimetric) §	N/A	N/A	X
Sampling §	N/A	N/A	X
pH §	N/A	N/A	X
Phenol §	N/A	N/A	0
Temperature §	N/A	N/A	X
Determination of Total Nitrogen §	N/A	N/A	X
Determination of Total Phosphorus §	N/A	N/A	X
Total Suspended Solids (TSS) §	N/A	N/A	0
Heavy Metals	N/A	X	0

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TEST ITEMS	Incoming Water	Raw Waste Water	Discharged Waste Water
Conventional Parameters			Please refer to the information in TEST RESULTS
Total Hexavalent Chromium	N/A	0	0
Alkylphenols (APEOs)	N/A	0	0
Alkylphenols (APEOs)	N/A	0	X
Chlorobenzenes and Chlorotoluenes	N/A	0	0
Chloro- Phenols	N/A	0	0
Banned Amines (Associated with Azo dyes)	N/A	0	0
Carcinogenic dyes and Disperse dyes	N/A	0	0
Halogenated Flame retardants	N/A	0	0
Short Chain Chlorinated Paraffins (SCCP) with C10-C13	N/A	0	0
Glycols	N/A	0	0
Halogenated Solvents	N/A	0	0
Organotin Compounds	N/A	0	0
Phthalates	N/A	0	0
PFCs (Perfluorocarbon / Polyfluorinated Compounds)	N/A	0	0
Polycyclic Aromatic Hydrocarbons (PAHs)	N/A	0	0
Volatile organic compounds (VOCs)	N/A	0	0
Metals	N/A	N/A	N/A

Note :

- X - Detected
- O - Not Detected
- N/A - Not Tested

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TEST RESULTS

Factory Name:
Factory Address:

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	ZDHC REQUIREMENTS			Factory Performance		
									Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										

Average Waste Water Flow § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Average Flow	-	-	N/A	N/A	2.400	N/A	SMWW 23ª Edição, método 1060; IT.10-412/11	-	-	-	N/A	N/A	Detected
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Total Cyanide § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Total Cyanide	0.050	mg/L	N/A	N/A	n.d.	N/A	APHA 4500 CN-F	0,2	0,1	0,05	N/A	N/A	Fulfill Aspirational Limit
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Sulfide. Methylene Blue Method § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Sulfide	0.010	mg/L	N/A	N/A	n.d.	N/A	APHA 4500 S2 - D	0,5	0,05	0,01	N/A	N/A	Fulfill Progressive Limit
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Sulfite § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Sulfite	-	mg/L	N/A	N/A	0.174	N/A	ISO 10304-3	2	0,5	0,2	N/A	N/A	Fulfill Aspirational Limit
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Ammonia Nitrogen § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Ammonium Nitrogen as N	0.050	mg/L	N/A	N/A	4.615	N/A	USEPA 350.1	10	1	0,5	N/A	N/A	Fulfill Foundational Limit
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Determination of AOX § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

AOX	0.050	mg/L	N/A	N/A	n.d.	N/A	IT 10-636	5	1	0,1	N/A	N/A	Fulfill Aspirational Limit
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Biochemical Oxygen Demand (BOD) § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Biochemical Oxygen Demand	0.400	mg/L	N/A	N/A	12.950	N/A	APHA 5210B	30	15	5	N/A	N/A	Fulfill Progressive Limit
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Chemical Oxygen Demand § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Chemical Oxygen Demand	20.000	mg/L	N/A	N/A	37.000	N/A	APHA 5220 D	150	80	40	N/A	N/A	Fulfill Aspirational Limit
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Total Coliforms § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Total Coliforms	1.000	Bacteria / 100ml	N/A	N/A	N/A	N/A	APHA 9223 B	400	100	25	N/A	N/A	N/A
Total Coliforms	1.000	Bacteria / 100ml	N/A	N/A	>2419.6	N/A	APHA 9223 B	400	100	25	N/A	N/A	Exceed Foundational Limit

Color § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Color (436 nm)	1.100	m ⁻¹	N/A	N/A	8.800	N/A	ISO 7887-B:2011(E)	7	5	2	N/A	N/A	Exceed Foundational Limit
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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
					ZDHC REQUIREMENTS			Factory Performance						

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Color (525 nm)		0.500	m ⁻¹	N/A	N/A	9.900	N/A	ISO 7887-B:20 11(E)	5	3	1	N/A	N/A	Exceed Foundational Limit
Color (620 nm)		0.500	m ⁻¹	N/A	N/A	11.400	N/A	ISO 7887-B:20 11(E)	3	2	1	N/A	N/A	Exceed Foundational Limit

Oil and Grease in Water (Gravimetric) § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Oil and Grease		0.500	mg/L	N/A	N/A	7.000	N/A	USEPA 1664	10	2	0,5	N/A	N/A	Fulfill Foundational Limit
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Sampling § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Foam		-	-	N/A	N/A	Not Visible	N/A	SMWW 23* Edição, método 1060; IT 3.6-35 Guia de Amostragem de Água	Not visible	Not visible	Not visible	N/A	N/A	Fulfill Aspirational Limit
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pH § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

pH		-	-	N/A	N/A	8.030	N/A	ISO 10523	6-9	6-9	6-9	N/A	N/A	Fulfill Aspirational Limit
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Phenol § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Phenol		0.001	mg/L	N/A	N/A	n.d.	N/A	APHA 5530B C&D	0,5	0,01	0,001	N/A	N/A	Fulfill Progressive Limit
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Temperature § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Effluent Temperature		-	°C	N/A	N/A	29.400	N/A	USEPA 170.1	35	30	25	N/A	N/A	Fulfill Progressive Limit
Delta (Effluent-Ambient)			°C	N/A	N/A	2.200	N/A	USEPA 170.1	15	10	5	N/A	N/A	Fulfill Aspirational Limit

Determination of Total Nitrogen § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

Total Nitrogen		0.200	mg/L	N/A	N/A	6.807	N/A	SMEWW-APHA-AW WA-WEF Part 4500-P J: 2012; 23rd Ed.-Persulfate Method for Simultaneous Determination of Total Nitrogen and Total Phosphorus	20	10	5	N/A	N/A	Fulfill Progressive Limit
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Determination of Total Phosphorus § Suncontracted to an SGS Laboratory – São Bernardo do Campo, SP.

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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
									ZDHC REQUIREMENTS			Factory Performance		

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
1,2,3-Trichlorobenzene	87-61-6	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
1,2,4,5-Tetrachlorobenzene	95-94-3	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
1,2,4-Trichlorobenzene	120-82-1	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
1,2-Dichlorobenzene	95-50-1	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
1,3,5-Trichlorobenzene	108-70-3	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
									ZDHC REQUIREMENTS			Factory Performance		

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
1,3-Dichlorobenzene	541-73-1	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
1,4-Dichlorobenzene	106-46-7	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
2,3,4,5 Tetrachlorotoluene	76057-12-0	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
2,3,4,6 Tetrachlorotoluene	875-40-1	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
2,3,4 Trichlorotoluene	7359-72-0	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
									ZDHC REQUIREMENTS			Factory Performance		

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Monochlorobenzenes	108-90-7	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Pentachlorobenzene	608-93-5	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Pentachlorotoluene	877-11-2	0.200	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, USEPA 8270D or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

Chloro- Phenols

2,3,4,5-Tetrachlorophenol	4901-51-3	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
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Sample ID	001	002	003	004		ZDHC REQUIREMENTS	Factory Performance
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022			
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)			
Sampling Start Time	-	14:55	14:00	13:20			
Sampling End Time	-	15:20	14:50	13:30			

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
2,3,5-Trichlorophenol	933-78-8	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
2,3,6-Trichlorophenol	933-75-5	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
2,3-dichlorophenol	576-24-9	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected

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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
									ZDHC REQUIREMENTS			Factory Performance		

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
2,4,5-Trichlorophenol	95-95-4	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
2,4,6-Trichlorophenol	88-06-2	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
2,4-dichlorophenol	120-83-2	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected

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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
									ZDHC REQUIREMENTS			Factory Performance		

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
3,4,5-Trichlorophenol	609-19-8	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
3,4-dichlorophenol	95-77-2	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
3,5-dichlorophenol	591-35-5	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected

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Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	ZDHC REQUIREMENTS			Factory Performance		
									Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
3-chlorophenol	108-43-0	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
4-chlorophenol	106-48-9	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Pentachlorophenols (PCP)	87-86-5	0.500	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 14154 or solvent extraction and derivatization with KOH, acetic anhydride followed by GC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected

Banned Amines (Associated with Azo dyes)

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Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	ZDHC REQUIREMENTS			Factory Performance		
									Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
3,3'-dimethoxybenzidine	119-90-4	0.100	µg/L	N/A	n.d.	n.d.	N/A	With reference to EPA 8270D, EN 14362 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	-	-	-	N/A	Not Detected	Not Detected
3,3'-dimethylbenzidine	119-93-7	0.100	µg/L	N/A	n.d.	n.d.	N/A	With reference to EPA 8270D, EN 14362 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	-	-	-	N/A	Not Detected	Not Detected
3,3'-dichlorobenzidine	91-94-1	0.100	µg/L	N/A	n.d.	n.d.	N/A	With reference to EPA 8270D, EN 14362 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	-	-	-	N/A	Not Detected	Not Detected
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	0.100	µg/L	N/A	n.d.	n.d.	N/A	With reference to EPA 8270D, EN 14362 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	-	-	-	N/A	Not Detected	Not Detected

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Items	CAS No.	Reporting Limit	Unit	Sample ID	001	002	003	004	Methods	ZDHC REQUIREMENTS			Factory Performance		
										Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
				001	-	07-06-2022	07-06-2022	07-06-2022							
				Date Sampled	-	07-06-2022	07-06-2022	07-06-2022							
				Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)							
				Sampling Start Time	-	14:55	14:00	13:20							
				Sampling End Time	-	15:20	14:50	13:30							
Benzidine	92-87-5	0.100	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to EPA 8270D, EN 14362 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	-	-	-	N/A	Not Detected	Not Detected
o-aminoazotoluene	97-56-3	0.100	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to EPA 8270D, EN 14362 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	-	-	-	N/A	Not Detected	Not Detected
O-Anisidine	90-04-0	0.100	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to EPA 8270D, EN 14362 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	-	-	-	N/A	Not Detected	Not Detected
o-toluidine	95-53-4	0.100	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to EPA 8270D, EN 14362 or Solvent extraction with sodium dithionite reduction followed by GC/MS and HPLC analysis.	-	-	-	N/A	Not Detected	Not Detected

Carcinogenic dyes and Disperse dyes

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Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	ZDHC REQUIREMENTS			Factory Performance		
									Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Acid Red 26	3761-53-3	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Basic Blue 26	2580-56-5	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Basic Green 4 (Malachite green chloride)	569-64-2	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Basic Green 4 (Malachite green oxalate)	2437-29-8	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Basic Green 4 (malachite green)	10309-95-2	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Basic Red 9	569-61-9	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Basic Violet 14	632-99-5	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Direct Black 38	1937-37-7	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Direct Blue 6	2602-46-2	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Direct Red 28	573-58-0	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Disperse Blue 1	2475-45-8	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Disperse Blue 3	2475-46-9	500.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected

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Items	CAS No.	Reporting Limit	Unit	Sample ID	001	002	003	004	Methods	ZDHC REQUIREMENTS			Factory Performance		
										Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Foundational Limit	Progressive Limit
Disperse Orange 11	82-28-0	500.000	µg/L	-	07-06-2022	ETA	ETA	Sludge Dewaterer (ETA) (3:20)	-	-	-	N/A	Not Detected	Not Detected	
Disperse Blue 102	12222-97-8	50.000	µg/L	-	14:55	14:55	14:00	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Blue 106	12223-01-7	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Blue 124	61951-51-7	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Blue 26	3860-63-7	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Blue 35	12222-75-2,56524-77-7	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Blue 7	3179-90-6	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Brown 1	23355-64-8	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Orange 1	2581-69-3	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Orange 3	730-40-5	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Orange 37/59/76	13301-61-6	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	
Disperse Red 1	2872-52-8	50.000	µg/L	-	15:20	15:20	14:50	13:30	-	-	-	N/A	Not Detected	Not Detected	

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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
					ZDHC REQUIREMENTS			Factory Performance						

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Disperse Red 11	2872-48-2	50.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Disperse Red 17	3179-89-3	50.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Disperse Yellow 1	119-15-3	50.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Disperse Yellow 3	2832-40-8	50.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Disperse Yellow 39	12236-29-2	50.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Disperse Yellow 49	54824-37-2	50.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected
Disperse Yellow 9	6373-73-5	50.000	µg/L	N/A	n.d.	n.d.	N/A	Solvent extraction followed by LC/MS analysis.	-	-	-	N/A	Not Detected	Not Detected

Halogenated Flame retardants

2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0	5.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 527, USEPA 8321B, ISO 22032 or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9	5.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 527, USEPA 8321B, ISO 22032 or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Items	CAS No.	Reporting Limit	Unit	Sample ID	001	002	003	004	Methods	ZDHC REQUIREMENTS			Factory Performance		
										Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Decabromo diphenyl ethers (DecaBDE)	1163-19-5	5.000	µg/L	001	-	07-06-2022	ETA	ETA	Sludge Dewaterer (ETA)	-	-	-	N/A	Not Detected	Not Detected
Hexabromocyclododecane (HBCDD)	134237-50-6,134237-51-7,134237-52-8	5.000	µg/L	002	N/A	n.d.	n.d.	N/A	With reference to USEPA 527, USEPA 8321B, ISO 22032 or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Octabromo diphenyl ethers (OctaBDE)	32536-52-0	5.000	µg/L	003	N/A	n.d.	n.d.	N/A	With reference to USEPA 527, USEPA 8321B, ISO 22032 or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	5.000	µg/L	004	N/A	n.d.	n.d.	N/A	With reference to USEPA 527, USEPA 8321B, ISO 22032 or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
					ZDHC REQUIREMENTS			Factory Performance						

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Tris(2,3-Dibromopropyl)-Phosphate (TRIS)	126-72-7	5.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 527, USEPA 8321B, ISO 22032 or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	5.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 527, USEPA 8321B, ISO 22032 or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

Short Chain Chlorinated Paraffins (SCCP) with C10-C13

Short Chained Chlorinated Paraffins (SCCP)	85535-84-8	5.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 527, USEPA 8321B, ISO 22032 or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
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Glycols

2-Ethoxyethanol	110-80-5	50.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
2-Ethoxyethyl acetate	111-15-9	50.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Items	CAS No.	Reporting Limit	Unit	Sample ID	001	002	003	004	Methods	ZDHC REQUIREMENTS			Factory Performance		
										Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
2-Methoxyethanol	109-86-4	50.000	µg/L	001	-	07-06-2022	ETA	ETA	Sludge Dewaterer (ETA) (13:20)	-	-	-	N/A	Not Detected	Not Detected
2-Methoxyethylacetate	110-49-6	50.000	µg/L	002	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
2-Methoxypropylacetate	70657-70-4	50.000	µg/L	003	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Bis(2-methoxyethyl)-ether	111-96-6	50.000	µg/L	004	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Ethylene glycol dimethyl ether	110-71-4	50.000	µg/L		N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Triethylene glycol dimethyl ether	112-49-2	50.000	µg/L		N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D or Solvent extraction followed by GC/MS or LC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

Halogenated Solvents

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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
									ZDHC REQUIREMENTS			Factory Performance		

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
1,2-Benzenedicarboxylic acid, Di-C6-8 Branched Alkyl Esters, C7-rich (DIHP)	71888-89-6	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
1,2-Benzenedicarboxylic acid, Di-C7-11 Branched and Linear Alkyl Esters (DHNU)	68515-42-4	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Bis(2-methoxyethyl)phthalate (DMEP)	117-82-8	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Benzyl Butyl Phthalate (BBP)	85-68-7	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Di(2-Ethyl Hexyl) Phthalate(DEHP)	117-81-7	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
									ZDHC REQUIREMENTS			Factory Performance		

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Dicyclohexyl Phthalate (DCHP)	84-61-7	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Di-Iso-Decyl Phthalate (DIDP)	26761-40-0, 68515-49-1	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Di-Iso-octyl Phthalate (DIOP)	27554-26-3	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Di-Iso-Butyl Phthalate (DIBP)	84-69-5	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Di-Iso-Nonyl Phthalate (DINP)	28553-12-0, 68515-48-0	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Sample ID	001	002	003	004										
Date Sampled	-	07-06-2022	07-06-2022	07-06-2022										
Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)										
Sampling Start Time	-	14:55	14:00	13:20										
Sampling End Time	-	15:20	14:50	13:30										
									ZDHC REQUIREMENTS			Factory Performance		

Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Di-N-Hexyl Phthalate (DNHP)	84-75-3	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Di-N-Octyl Phthalate (DNOP)	117-84-0	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Di-N-Propyl Phthalate (DPrP)	131-16-8	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Di-Butyl Phthalate (DBP)	84-74-2	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Diethyl Phthalate (DEP)	84-66-2	10.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8270D, ISO 18856, or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Items	CAS No.	Reporting Limit	Unit	Sample ID	001	002	003	004	Methods	ZDHC REQUIREMENTS			Factory Performance		
										Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
				Date Sampled	-	07-06-2022	07-06-2022	07-06-2022							
				Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)							
				Sampling Start Time	-	14:55	14:00	13:20							
				Sampling End Time	-	15:20	14:50	13:30							
Benzo(a)pyrene	50-32-8	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Benzo(b)fluoranthene	205-99-2	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Benzo(e)pyrene	192-97-2	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Benzo(g,h,i)perylene	191-24-2	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Benzo(j)fluoranthene	205-82-3	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Benzo(k)fluoranthene	207-08-9	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Chrysene	218-01-9	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Items	CAS No.	Reporting Limit	Unit	Sample ID	001	002	003	004	Methods	ZDHC REQUIREMENTS			Factory Performance		
										Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
				Date Sampled	-	07-06-2022	07-06-2022	07-06-2022							
				Sampling Location	-	ETA	ETA	Sludge Dewaterer (ETA)							
				Sampling Start Time	-	14:55	14:00	13:30							
				Sampling End Time	-	15:20	14:50								
Dibenz(a,h)anthracene	53-70-3	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Fluoranthene	206-44-0	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Fluorene	86-73-7	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Indeno(1,2,3-c,d)pyrene	193-39-5	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Naphthalene	91-20-3	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Phenanthrene	85-01-8	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
Pyrene	129-00-0	1.000	µg/L	N/A	n.d.	n.d.	n.d.	N/A	With reference to DIN 38407-39 or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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Items	CAS No.	Reporting Limit	Unit	Incoming Water	Raw Waste Water	Discharged Waste Water	Mud	Methods	ZDHC REQUIREMENTS			Factory Performance		
									Foundational Limit	Progressive Limit	Aspirational Limit	Incoming Water	Raw Waste Water	Discharged Waste Water
Volatile organic compounds (VOCs)														
Benzene	71-43-2	1.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
m-cresol	108-39-4	1.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
o-cresol	95-48-7	1.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected
p-cresol	106-44-5	1.000	µg/L	N/A	n.d.	n.d.	N/A	With reference to USEPA 8260B, Purge&Trap, Head-space or Solvent extraction followed by GC/MS analysis	-	-	-	N/A	Not Detected	Not Detected

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The assay were conducted in the laboratory in Brazil, located at the address cited at the bottom of this report.

*** End of Report ***

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