



# Test Report

REPORT NO 1001876508

PAGE: PAGE 1/40

To: Benetton Industrille Tunisie  
Route De Sousse Oued Hamdoun  
5012 Sahline  
SAHLINE 5012  
Tunisia  
ATTN:Sondes Skhiri  
Sondes.Skhiri@benetton.com

Received Date: Mar 17, 2023  
Date In: Mar 17, 2023  
Report Date: May 16, 2023

## PHOTO OF SUBMITTED SAMPLE(S):



© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 2/40

SAMPLE INFORMATION:	
Sample Description	ZDHC Wastewater+Sludge
ZDHC Gateway ID	A387XY80
Type of Discharge	Direct Discharge
Amount of Water Discharged	>15m3/day
Sludge Disposal Path	B: Landfill with Significant Control Measures
Homogenisation Tank with average holding time > 12 Hours	Yes
wastewater Sampling Point are	2
Sludge Sampling Point	1
ETP Equiped with a Flowmeter	Yes
Pack Requested	Direct Discharge
Sampler ID	/

### Sample description assigned by laboratory:

Number of Samples: 3

Sample Number:	Description:
Effluent	Effluent Wataer
Sludge	Sludge
Untreated	Untreated Wastewater

TEST	Untreated	Effluent	Sludge
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)	PASS	-	-
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs) Content	-	-	PASS

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systimatecally added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 3/40

TEST	Untreated	Effluent	Sludge
Azo Dyes	PASS	-	-
Cyanide Content	-	-	PASS
Biological Oxygen Demand (BOD)	-	PASS	-
Chemical Oxygen Demand (COD)	-	PASS	-
Total Suspended Solids (TSS)	-	PASS	-
TDS	-	Ref Only	-
Cyanide	-	PASS	-
Sulfide	-	PASS	-
Sulfite	-	PASS	-
pH	-	-	Ref Only
pH Value	-	PASS	-
Colour (436, 525, 620nm)	-	PASS	-
Total Nitrogen	-	PASS	-
Ammonium - Nitrogen	-	PASS	-
Total Phosphorus	-	PASS	-
Total Phenol	-	PASS	-
Temperature Difference	-	PASS	-
Absorbable Organic Halogens (AOX)	-	PASS	-
Oil and Grease	-	PASS	-
Persistent Foam	-	PASS	-
% Solids	-	-	Ref Only
E.coli	-	PASS	-
Dissolved Oxygen (DO)	-	Ref Only	-
Total Chlorine	-	Ref Only	-
Sulfate	-	Ref Only	-
Chloride	-	Ref Only	-
Paint Filter Test	-	-	Ref Only
Fecal Coliform	-	-	Ref Only
Chlorinated Paraffins	PASS	-	-
Chlorophenols	PASS	-	-
Allergenic Disperse Dyes	PASS	-	-
Carcinogenic Dyes	PASS	-	-
Navy Blue Colourant	PASS	-	-
Flame Retardants	FAIL	-	-
Chromium VI Content	-	-	PASS

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 4/40

TEST	Untreated	Effluent	Sludge
Heavy Metals	-	PASS	-
Total Heavy Metal Content	-	-	Ref Only
Chromium VI	-	PASS	-
Borate, Zinc Salt	FAIL	-	-
Leachable Test - Metals	-	-	Ref Only
Chlorobenzenes and Chlorotoluenes	PASS	-	-
Chlorotoluenes Content	-	-	PASS
Bisphenol A	PASS	-	-
UV Absorbers	PASS	-	-
Dimethylformamide (DMFa)	PASS	-	-
Permethrin	PASS	-	-
Quinoline	PASS	-	-
Triclosan	PASS	-	-
o-Phenylphenol	PASS	-	-
Thiourea	PASS	-	-
2-(2-Aminoethylamino)ethanol (AEEA)	PASS	-	-
Glycols	PASS	-	-
Organotin Compounds	FAIL	-	-
Polycyclic Aromatic Hydrocarbons (PAHs)	PASS	-	-
Polycyclic Aromatic Hydrocarbons (PAHs) Content	-	-	PASS
Perfluorinated and Polyfluorinated Chemicals (PFCs)	PASS	-	-
Phthalates	FAIL	-	-
Halogenated Solvents	FAIL	-	-
Volatile Organic Compounds (VOC)	PASS	-	-

Note: NC = No Comment NA = Not Applicable NR = Not Requested NT = Not Tested Ref Only = Referenceonly, \*\* = test result(s) will be added later

Note:

1. The results relate only to the items tested

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 5/40

Approved By

FOUED MELLOULI

Approved By

MOHAMED BAKIRA

---

Consumer Manager

Chemical Laboratory  
Supervisor

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 6/40

Test Performed: Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)		
Sample Number:	Untreated	
	Result	Requirements
Octylphenol (OP)	<5.0 µg/L	< 5.0 µg/L
Nonylphenol (NP)	<5.0 µg/L	< 5.0 µg/L
OPEO, n=1-2	<5.0 µg/L	< 5.0 µg/L
OPEO, n>2	<5.0 µg/L	< 5.0 µg/L
NPEO, n=1-2	<5.0 µg/L	< 5.0 µg/L
NPEO, n>2	<5.0 µg/L	< 5.0 µg/L
Conclusion	PASS	

Remark:

- Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
- "<" means less than "≤" means less than or equal to.
- "µg/L" means micrograms per liter.

Test Performed: Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs) Content		
Sample Number:	Sludge	
	Result	Requirements
Octylphenol (OP)	<0.4 mg/kg	< 0.4 mg/kg
Nonylphenol (NP)	<0.4 mg/kg	< 0.4 mg/kg
OPEO, n=1-2	<0.4 mg/kg	< 0.4 mg/kg
OPEO, n>2	<0.4 mg/kg	< 0.4 mg/kg
NPEO, n=1-2	<0.4 mg/kg	< 0.4 mg/kg
NPEO, n>2	<0.4 mg/kg	< 0.4 mg/kg
Conclusion	PASS	

Remark:

- Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
- "<" means less than "≤" means less than or equal to.
- "mg/kg" means milligrams per kilogram.

Test Performed: Azo Dyes		
Test Method: With reference to EN 14362-1&3 and followed by GCMS &/or LCMS Analysis.		
Sample Number:	Untreated	
	Result	Requirements

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 7/40

Test Performed: Azo Dyes		
benzidine	<0.1 µg/L	< 0.1 µg/L
4-aminodiphenyl	<0.1 µg/L	< 0.1 µg/L
4-chloro-o-toluidine	<0.1 µg/L	< 0.1 µg/L
2-naphthylamine	<0.1 µg/L	< 0.1 µg/L
o-aminoazotoluene	<0.1 µg/L	< 0.1 µg/L
5-nitro-o-toluidine	<0.1 µg/L	< 0.1 µg/L
4-chloroaniline	<0.1 µg/L	< 0.1 µg/L
4-methoxy-m-phenylenediamine	<0.1 µg/L	< 0.1 µg/L
4,4-diaminodiphenylmethane	<0.1 µg/L	< 0.1 µg/L
3,3-dichlorobenzidine	<0.1 µg/L	< 0.1 µg/L
3,3-dimethoxybenzidine	<0.1 µg/L	< 0.1 µg/L
3,3-dimethylbenzidine	<0.1 µg/L	< 0.1 µg/L
4,4-methylenedi-o-toluidine	<0.1 µg/L	< 0.1 µg/L
p-cresidine	<0.1 µg/L	< 0.1 µg/L
4,4-methylene-bis-(2-chloroaniline)	<0.1 µg/L	< 0.1 µg/L
4,4-oxydianiline	<0.1 µg/L	< 0.1 µg/L
4,4-thiodianiline	<0.1 µg/L	< 0.1 µg/L
o-toluidine	<0.1 µg/L	< 0.1 µg/L
2,4,5-trimethylaniline	<0.1 µg/L	< 0.1 µg/L
4-methyl-m-phenylenediamine	<0.1 µg/L	< 0.1 µg/L
o-anisidine	<0.1 µg/L	< 0.1 µg/L
2,4-xylidine	<0.1 µg/L	< 0.1 µg/L
2,6-xylidine	<0.1 µg/L	< 0.1 µg/L
4-aminoazobenzene	<0.1 µg/L	< 0.1 µg/L
4-chloro-o-toluidine hydrochloride	<0.1 µg/L	< 0.1 µg/L
2-naphthylammonium acetate	<0.1 µg/L	< 0.1 µg/L
2,4-diaminoanisole sulfate	<0.1 µg/L	< 0.1 µg/L
2,4,5-trimethylaniline hydrochloride	<0.1 µg/L	< 0.1 µg/L
Conclusion	PASS	

Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "<=" means less than or equal to.
3. "µg/L" means micrograms per liter.

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 8/40

## Test Performed: Azo Dyes

benzidine (CAS No. 92-87-5); 4-aminodiphenyl (CAS No. 92-67-1); 4-chloro-o-toluidine (CAS No. 95-69-2); 2-naphthylamine (CAS No. 91-59-8); o-aminoazotoluene (CAS No. 97-56-3); 5-nitro-o-toluidine (CAS No. 99-55-8); 4-chloroaniline (CAS No. 106-47-8); 4-methoxy-m-phenylenediamine (CAS No. 615-05-4); 4,4-diaminodiphenylmethane (CAS No. 101-77-9) 3,3-dichlorobenzidine (CAS No. 91-94-1); 3,3-dimethoxybenzidine (CAS No. 119-90-4) 3,3-dimethylbenzidine (CAS No. 119-93-7) 4,4-methylenedi-o-toluidine (CAS No. 838-88-0); p-cresidine (CAS No. 120-71-8) 4,4-methylene-bis-(2-chloroaniline) (CAS No. 101-14-4) 4,4-oxydianiline (CAS No. 101-80-4) 4,4- thiodianiline (CAS No. 139-65-1); o-toluidine (CAS No. 95-53-4); 2,4,5-trimethylaniline (CAS No. 137-17-7); 4-methyl-m-phenylenediamine (CAS No. 95-80-7); o-anisidine (CAS No. 90-04-0); 2,4-xylydine (CAS No. 95-68-1); 2,6-xylydine (CAS No. 87-62-7); 4-aminoazobenzene (CAS No. 60-09-3) 4-chloro-o-toluidine hydrochloride (CAS No. 3165-93-3) 2-naphthylammonium acetate (CAS No. 553-00-4) 2,4- diaminoanisoole sulfate (CAS No. 39156-41-7); 2,4,5-trimethylaniline hydrochloride (CAS No. 21436-97-5);

## Test Performed: Cyanide Content

Sample Number:	Sludge	
	Result	Requirements
Cyanide	<20.0 mg/kg	< 20.0 mg/kg
Conclusion	PASS	

### Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "<=" means less than or equal to.
3. "mg/kg" means milligrams per kilogram.

## Test Performed: Biological Oxygen Demand (BOD)

Sample Number:	Effluent	
	Result	Requirements
BOD (5-day)	<8.0 mg/L	≤ 30.0 mg/L
Conclusion	PASS	

## Test Performed: Chemical Oxygen Demand (COD)

Sample Number:	Effluent	
	Result	Requirements
COD	<40 mg/L	≤ 150.0 mg/L
Conclusion	PASS	

### Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "<=" means less than or equal to.
3. "mg/L" means milligrams per liter.

## Test Performed: Total Suspended Solids (TSS)

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.





# Test Report

REPORT NO 1001876508

PAGE: PAGE 9/40

Test Performed: Total Suspended Solids (TSS)		
Sample Number:	Effluent	
	Result	Requirements
TSS	5.0 mg/L	≤ 50.0 mg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: TDS		
Sample Number:	Effluent	
	Result	Requirements
TDS	1684.0 mg/L	-
Conclusion	Ref Only	

Test Performed: Cyanide		
Sample Number:	Effluent	
	Result	Requirements
Cyanide	<0.05 mg/L	≤ 0.2 mg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: Sulfide		
Sample Number:	Effluent	
	Result	Requirements
Sulfide	<0.01 mg/L	≤ 0.5 mg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: Sulfite		
-------------------------	--	--

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 10/40

Test Performed: Sulfite		
Sample Number:	Effluent	
	Result	Requirements
Sulfite	<0.2 mg/L	≤ 2.0 mg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: pH		
Sample Number:	Sludge	
	Result	Requirements
pH value	7.32	-
Conclusion	Ref Only	

Test Performed: pH Value		
Sample Number:	Effluent	
	Result	Requirements
pH value	8.977	6.0 to 9.0
Conclusion	PASS	

Test Performed: Colour (436, 525, 620nm)		
Sample Number:	Effluent	
	Result	Requirements
Colour (436nm)	<2.0 absorbance	≤ 7.0 absorbance
Colour (525nm)	<1.0 absorbance	≤ 5.0 absorbance
Colour (620nm)	<1.0 absorbance	≤ 3.0 absorbance
Conclusion	PASS	

Test Performed: Total Nitrogen		
Sample Number:	Effluent	
	Result	Requirements
Total Nitrogen as N	6.1 mg/L	≤ 20.0 mg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 11/40

## Test Performed: Total Nitrogen

limit of quantification expressed by that number.  
2. "<" means less than "≤" means less than or equal to.  
3. "mg/L" means milligrams per liter.

## Test Performed: Ammonium • Nitrogen

Sample Number:	Effluent	Requirements
	Result	
Ammonium as N	1.47 mg/L	≤ 10.0 mg/L
Conclusion	PASS	

Remark:  
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.  
2. "<" means less than "≤" means less than or equal to.  
3. "mg/L" means milligrams per liter.

## Test Performed: Total Phosphorus

Sample Number:	Effluent	Requirements
	Result	
Total Phosphorus as P	0.8 mg/L	≤ 3.0 mg/L
Conclusion	PASS	

Remark:  
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.  
2. "<" means less than "≤" means less than or equal to.  
3. "mg/L" means milligrams per liter.

## Test Performed: Total Phenol

Sample Number:	Effluent	Requirements
	Result	
Total Phenol	<0.001 mg/L	≤ 0.5 mg/L
Conclusion	PASS	

Remark:  
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.  
2. "<" means less than "≤" means less than or equal to.  
3. "mg/L" means milligrams per liter.

## Test Performed: Temperature Difference

Sample Number:	Effluent	Requirements
----------------	----------	--------------

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 12/40

Test Performed: Temperature Difference		
	Result	Requirements
Temperature	7 °C	15.0 °C
Conclusion	PASS	
Remark: 1. "<" means less than "≤" means less than or equal to. 2. "°C " means degrees Celsius.		

Test Performed: Absorbable Organic Halogens (AOX)		
Sample Number:	Effluent	
	Result	Requirements
Absorbable Organic Halogens (AOX)	<0.1 mg/L	≤ 3.0 mg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: Oil and Grease		
Sample Number:	Effluent	
	Result	Requirements
n-Hexane Extractable Material (HEM)	1.4 mg/L	≤ 10.0 mg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: Persistent Foam		
Sample Number:	Effluent	
	Result	Requirements
Persistent Foam	Not Visible	Not Visible
Conclusion	PASS	

Test Performed: % Solids		
Sample Number:	Sludge	

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 13/40

Test Performed: % Solids		
	Result	Requirements
Dry mass (total solids)	15.4 %	-
Conclusion	Ref Only	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "%" means percent.		

Test Performed: E.coli		
Sample Number:	Effluent	
	Result	Requirements
E.coli	<126 CFU/100mL	≤ 126.0 CFU/100mL
Conclusion	PASS	
Remark: 1. "CFU" means "Colony Forming Unit".		

Test Performed: Dissolved Oxygen (DO)		
Sample Number:	Effluent	
	Result	Requirements
Dissolved Oxygen (DO)	0.09 mg/L	-
Conclusion	Ref Only	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: Total Chlorine		
Sample Number:	Effluent	
	Result	Requirements
Total Chlorine	<0.03 mg/L	-
Conclusion	Ref Only	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "mg/L" means milligrams per liter.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 14/40

Test Performed: Sulfate		
Sample Number:	Effluent	
	Result	Requirements
Sulfate	357 mg/L	-
Conclusion	Ref Only	

Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "≤" means less than or equal to.
3. "mg/L" means milligrams per liter.

Test Performed: Chloride		
Sample Number:	Effluent	
	Result	Requirements
Chloride	429 mg/L	-
Conclusion	Ref Only	

Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "≤" means less than or equal to.
3. "mg/L" means milligrams per liter.

Test Performed: Paint Filter Test		
Sample Number:	Sludge	
	Result	Requirements
Paint Filter Test	PASS	-
Conclusion	Ref Only	

Test Performed: Fecal Coliform		
Sample Number:	Sludge	
	Result	Requirements
Fecal Coliform	1100	-
Conclusion	Ref Only	

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 15/40

Test Performed: Chlorinated Paraffins		
Sample Number:	Untreated	
	Result	Requirements
SCCP	<25.0 µg/L	< 25.0 µg/L
MCCP	<500.0 µg/L	< 500.0 µg/L
Conclusion	PASS	

Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 16/40

**Test Performed: Chlorophenols**

Test Method: With reference USEPA 8270D, Solvent extraction and derivatization with KOH, acetic anhydride followed by GCMS analysis

Sample Number:	Untreated	
	Result	Requirements
PCP	<0.5 µg/L	< 0.5 µg/L
2,3,5,6-Tetrachlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,4,6-Tetrachlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,4,5-Tetrachlorophenol	<0.5 µg/L	< 0.5 µg/L
2,4,6-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,4,5-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,4-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,5-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
3,4,5-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3,6-Trichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,3-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,4-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,5-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
2,6-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
3,4-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
3,5-Dichlorophenol	<0.5 µg/L	< 0.5 µg/L
2-Chlorophenol	<0.5 µg/L	< 0.5 µg/L
3-Chlorophenol	<0.5 µg/L	< 0.5 µg/L
4-Chlorophenol	<0.5 µg/L	< 0.5 µg/L
Conclusion	PASS	

**Remark:**

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "<=" means less than or equal to.
3. "µg/L" means micrograms per liter.

**Test Performed: Allergenic Disperse Dyes**

Sample Number:	Untreated	
	Result	Requirements

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.





# Test Report

REPORT NO 1001876508

PAGE: PAGE 17/40

Test Performed: Allergenic Disperse Dyes		
C.I. Disperse Blue 7 (CAS 3179-90-6)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 26 (CAS 3860-63-7)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 35 (CAS 12222-75-2)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 35 (CAS 56524-77-7/CAS 56524-76-6)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 102 (CAS 12222-97-8)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 106 (CAS 12223-01-7)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Blue 124 (CAS 61951-51-7)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Brown 1 (CAS 23355-64-8)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Orange 1 (CAS 2581-69-3)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Orange 3 (CAS 730-40-5)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Orange 37/59/76 (CAS 12223-33-5/ 13301-61-6/ 51811-42-8)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Red 1 (CAS 2872-52-8)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Red 11 (CAS 2872-48-2)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Red 17 (CAS 3179-89-3)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Yellow 1 (CAS 119-15-3)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Yellow 3 (CAS 2832-40-8)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Yellow 9 (CAS 6373-73-5)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Yellow 39 (CAS 12236-29-2)	<50.0 µg/L	< 50.0 µg/L
C.I. Disperse Yellow 49 (CAS 54824-37-2)	<50.0 µg/L	< 50.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 18/40

Test Performed: Allergenic Disperse Dyes		
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		

Test Performed: Carcinogenic Dyes		
Sample Number:	Untreated Result	Requirements
C.I. Disperse Blue 1 (CAS 2475-45-8)	<500.0 µg/L	< 500.0 µg/L
C.I. Disperse Blue 3 (CAS 2475-46-9)	<500.0 µg/L	< 500.0 µg/L
C.I. Disperse Orange 11 (CAS 82-28-0)	<500.0 µg/L	< 500.0 µg/L
C.I. Acid Red 26 (CAS 3761-53-3)	<500.0 µg/L	< 500.0 µg/L
C.I. Acid Violet 49 (CAS 1694-09-3)	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Blue 26 (CAS 2580-56-5)	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Red 9 (CAS 569-61-9)	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Green 4 (malachite green chloride)(CAS 569-64-2)	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Green 4 (malachite green oxalate)(CAS 2437-29-8)	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Green 4 (malachite green) (CAS 10309-95-2)	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Violet 14 (CAS 632-99-5)	<500.0 µg/L	< 500.0 µg/L
C.I. Direct Black 38 (CAS 1937-37-7)	<500.0 µg/L	< 500.0 µg/L
C.I. Direct Blue 6 (CAS 2602-46-2)	<500.0 µg/L	< 500.0 µg/L
C.I. Direct Red 28 (CAS 573-58-0)	<500.0 µg/L	< 500.0 µg/L
C.I. Basic Violet 3 with >0.1% of Michler's Ketone (CAS 548-62-9)	<500.0 µg/L	< 500.0 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 19/40

<b>Test Performed: Carcinogenic Dyes</b>

<b>Test Performed: Navy Blue Colourant</b>		
<b>Sample Number:</b>	<b>Untreated</b>	
	<b>Result</b>	<b>Requirements</b>
Navy Blue (Component 1: C39H23ClCrN7O12S.2Na)	<500.0 µg/L	< 500.0 µg/L
Navy Blue (Component 2: C46H30CrN10O20S2.3Na)	<500.0 µg/L	< 500.0 µg/L
<b>Conclusion</b>	<b>PASS</b>	
<b>Remark:</b> 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "µg/L" means micrograms per liter.		

<b>Test Performed: Flame Retardants</b>		
<b>Sample Number:</b>	<b>Untreated</b>	
	<b>Result</b>	<b>Requirements</b>
Hexabromocyclododecane (HBCDD)	<25.0 µg/L	< 25.0 µg/L
Monobromodiphenyl ether (MonoBDE)	<25.0 µg/L	< 25.0 µg/L
Tribromodiphenyl ether (TriBDE)	<25.0 µg/L	< 25.0 µg/L
Tetrabromodiphenyl ether (TetraBDE)	<25.0 µg/L	< 25.0 µg/L
Pentabromo diphenyl ether (PentaBDE)	<25.0 µg/L	< 25.0 µg/L
Hexabromodiphenyl ether (HexaBDE)	<25.0 µg/L	< 25.0 µg/L
Heptabromodiphenyl ether (HeptaBDE)	<25.0 µg/L	< 25.0 µg/L
Octabromodiphenyl ether (OctaBDE)	<25.0 µg/L	< 25.0 µg/L
Nonabromodiphenyl ether (NonaBDE)	<25.0 µg/L	< 25.0 µg/L
Decabromodiphenyl ether (DecaDBE)	<25.0 µg/L	< 25.0 µg/L
Polybrominatedbiphenyl (PBB)	<25.0 µg/L	< 25.0 µg/L
Monobromobiphenyls (MonoBB)	<25.0 µg/L	< 25.0 µg/L
Dibromobiphenyls (DiBB)	<25.0 µg/L	< 25.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 20/40

Test Performed: Flame Retardants		
Octabromobiphenyls (OctaBB)	<25.0 µg/L	< 25.0 µg/L
Nonabromobiphenyls (NonaBB)	<25.0 µg/L	< 25.0 µg/L
Decabromobiphenyls (DecaBB)	<25.0 µg/L	< 25.0 µg/L
2,2-Bis(bromomethyl)propan-1,3-diol (BBMP)	<25.0 µg/L	< 25.0 µg/L
Bis (2,3-dibromopropyl) phosphate (BDBPP)	<25.0 µg/L	< 25.0 µg/L
Tris- (2,3 Dibromopropyl) phosphate (TRIS)	<25.0 µg/L	< 25.0 µg/L
Tris-aziridinyl phosphine oxide (TEPA)	<25.0 µg/L	< 25.0 µg/L
Tetrabromo Bisphenol A (TBBPA)	<25.0 µg/L	< 25.0 µg/L
Tris(2-chloroethyl)phosphate (TCEP)	<25.0 µg/L	< 25.0 µg/L
Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	<25.0 µg/L	< 25.0 µg/L
Tris(2-chloro-1-isopropyl) phosphate (TCPP)	<25.0 µg/L	< 25.0 µg/L
Diboron trioxide	580.0 µg/L	< 100.0 µg/L
Disodium tetraborate, anhydrous	839.0 µg/L	< 100.0 µg/L
Tetraboron disodium heptaoxide, hydrate	913.0 µg/L	< 100.0 µg/L
Boric Acid (HB)	1030.0 µg/L	< 100.0 µg/L
Disodium octaborate, tetrahydrate	709.0 µg/L	< 100.0 µg/L
Bibromopropylether	<25.0 µg/L	< 25.0 µg/L
Conclusion	FAIL	

Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 21/40

## Test Performed: Flame Retardants

Hexabromocyclododecane (HBCDD) (CAS No. 25637-99-4/3194-55-6); Monobromodiphenyl ether (MonoBDE) (CAS No. 101-55-3); Tribromodiphenyl ether (TriBDE) (CAS No. 49690-94-0); Tetrabromodiphenyl ether (TetraBDE) (CAS No. 40088-47-9); Pentabromodiphenyl ether (PentaBDE) (CAS No. 32534-81-9); Hexabromodiphenyl ether (HexaBDE) (CAS No. 36483-60-0); Heptabromodiphenyl ether (HeptaBDE) (CAS No. 68928-80-3); Octabromodiphenyl ether (OctaBDE) (CAS No. 32536-52-0); Nonabromodiphenyl ether (NonaBDE) (CAS No. 63936-56-1); Decabromodiphenyl Ether (DecaDBE) (CAS No. 1163-19-5); Polybrominatedbiphenyl (PBB) (CAS No. 59536-65-1); Monobromobiphenyls (MonoBB) (CAS No. 26264-10-8); Dibromobiphenyls (DiBB) (CAS No. 27479-65-8); Octabromobiphenyls (OctaBB) (CAS No. 27858-07-7); Nonabromobiphenyls (NonaBB) (CAS No. 27753-52-2); Decabromobiphenyls (DecaBB) (CAS No. 13654-09-6); 2,2-Bis(bromomethyl)propan-1,3-diol (BBMP) (CAS No. 3296-90-0); Bis(2,3-dibromopropyl) phosphate (BDBPP) (CAS No. 5412-25-9); Tris(2,3-dibromopropyl) phosphate (TRIS) (CAS No. 126-72-7); Tris(aziridinyl) phosphine oxide (TEPA) (CAS No. 545-55-1); Tetrabromo Bisphenol A (TBBPA) (CAS No. 79-94-7); Tris(2-chloroethyl)phosphate (TCEP) (CAS No. 115-96-8); Tris(1,3-dichloro-2-propyl) phosphate (TDCPP) (CAS No. 13674-87-8); Tris(2-chloro-1-isopropyl) phosphate (TCPP) (CAS No. 13674-84-5); Diboron trioxide (CAS No. 1303-86-2); Disodium tetraborate, anhydrous (CAS No. 1303-96-4/1330-43-4/12179-04-3); Tetraboron disodium heptaoxide, hydrate (CAS No. 12267-73-1); Boric Acid (HB) (CAS No. 10043-35-3); Disodium octaborate, tetrahydrate (CAS No. 12008-41-2); Bibromopropylether (CAS No. 21850-44-2);

## Test Performed: Chromium VI Content

Sample Number:	Sludge	
	Result	Requirements
Hexavalent Chromium (CrVI)	<20 mg/kg	< 20.0 mg/kg
Conclusion	PASS	

### Remark:

- Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
- "<" means less than "≤" means less than or equal to.
- "mg/kg" means milligrams per kilogram.

## Test Performed: Heavy Metals

Sample Number:	Effluent	
	Result	Requirements
Antimony (Sb)	<0.10 mg/L	≤ 0.1 mg/L
Arsenic (As)	<0.05 mg/L	≤ 0.05 mg/L
Barium (Ba)	<0.05 mg/L	-
Cadmium (Cd)	<0.10 mg/L	≤ 0.1 mg/L
Total Chromium (Cr)	<0.20 mg/L	≤ 0.2 mg/L
Cobalt (Co)	<0.05 mg/L	≤ 0.05 mg/L
Copper (Cu)	<1.00 mg/L	≤ 1.0 mg/L
Lead (Pb)	<0.10 mg/L	≤ 0.1 mg/L
Mercury (Hg)	<0.01 mg/L	≤ 0.01 mg/L
Nickel (Ni)	<0.20 mg/L	≤ 0.2 mg/L
Selenium (Se)	<0.05 mg/L	-

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 22/40

Test Performed: Heavy Metals		
Silver (Hg)	<0.10 mg/L	≤ 0.1 mg/L
Tin (Sn)	<0.05 mg/L	-
Zinc (Zn)	<5.00 mg/L	≤ 5.0 mg/L
Conclusion	PASS	

Remark:

- Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
- "<" means less than "≤" means less than or equal to.
- "mg/L" means milligrams per liter.

Test Performed: Total Heavy Metal Content		
Sample Number:	Sludge	
	Result	Requirements
Antimony (Sb)	<5.0 mg/kg	-
Arsenic (As)	<5.0 mg/kg	-
Barium (Ba)	<200.0 mg/kg	-
Cadmium (Cd)	<1.0 mg/kg	-
Total Chromium (Cr)	<50.0 mg/kg	-
Cobalt (Co)	<400.0 mg/kg	-
Copper (Cu)	<b>1068.0 mg/kg*</b>	-
Lead (Pb)	<5.0 mg/kg	-
Mercury (Hg)	<1.0 mg/kg	-
Nickel (Ni)	<20.0 mg/kg	-
Selenium (Se)	<5.0 mg/kg	-
Silver (Hg)	<50.0 mg/kg	-
Zinc (Zn)	<400.0 mg/kg	-
Conclusion	Ref Only	

Remark:

- Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
- "<" means less than "≤" means less than or equal to.
- "mg/kg" means milligrams per kilogram.
- \*: Threshold limit exceeded. Please refer to Leachate test to evaluate Disposal Path.

Test Performed: Chromium VI		
Sample Number:	Effluent	
	Result	Requirements
Hexavalent Chromium (CrVI)	<0.005 mg/L	≤ 0.05 mg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 23/40

Test Performed: Chromium VI		
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "mg/L" means milligrams per liter.		

Test Performed: Borate, Zinc Salt		
Sample Number:	Untreated	
	Result	Requirements
Total Boron and Total Zinc	185.0 µg/L	< 100.0 µg/L
Conclusion	FAIL	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.





# Test Report

REPORT NO 1001876508

PAGE: PAGE 24/40

Test Performed: Leachable Test • Metals		
Sample Number:	Sludge	
	Result	Requirements
Sb (Antimony)	<0.6 mg/kg	-
As (Arsenic)	<0.5 mg/kg	-
Ba (Barium)	<35.0 mg/kg	-
Cd (Cadmium)	<0.2 mg/kg	-
Cr (Chromium)	<5.0 mg/kg	-
Co (Cobalt)	<80.0 mg/kg	-
Cu (Copper)	<10.0 mg/kg	-
Pb (Lead)	<0.5 mg/kg	-
Hg (Mercury)	<0.050 mg/kg	-
Ni (Nickel)	<3.5 mg/kg	-
Se (Selenium)	<0.5 mg/kg	-
Ag (Silver)	<5.0 mg/kg	-
Zn (Zinc)	<50.0 mg/kg	-
Conclusion	Ref Only	

Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "<=" means less than or equal to.
3. "mg/kg" means milligrams per kilogram.

Test Performed: Chlorobenzenes and Chlorotoluenes		
Sample Number:	Untreated	
	Result	Requirements
Monochlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2-Dichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,3-Dichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,4-Dichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,3-Trichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,4-Trichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,3,5-Trichlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,3,4-Tetrachlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,3,5-Tetrachlorobenzene	<0.2 µg/L	< 0.2 µg/L
1,2,4,5-Tetrachlorobenzene	<0.2 µg/L	< 0.2 µg/L
Pentachlorobenzene	<0.2 µg/L	< 0.2 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.





# Test Report

REPORT NO 1001876508

PAGE: PAGE 25/40

Test Performed: Chlorobenzenes and Chlorotoluenes		
Hexachlorobenzene	<0.2 µg/L	< 0.2 µg/L
2-Chlorotoluene	<0.2 µg/L	< 0.2 µg/L
3-Chlorotoluene	<0.2 µg/L	< 0.2 µg/L
4-Chlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,5-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,6-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,4-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
3,4-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
3,5-Dichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,6-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,4,5-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,4-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
3,4,5-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,4,6-Trichlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,4,5-Tetrachlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,4,6-Tetrachlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,5,6-Tetrachlorotoluene	<0.2 µg/L	< 0.2 µg/L
2,3,4,5,6-Pentachlorotoluene	<0.2 µg/L	< 0.2 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "µg/L" means micrograms per liter.		
Monochlorobenzene (CAS No. 108-90-7); 1,2-Dichlorobenzene (CAS No. 95-50-1) 1,3-Dichlorobenzene (CAS No. 541-73-1) 1,4-Dichlorobenzene (CAS No. 106-46-7) 1,2,3-Trichlorobenzene (CAS No. 87-61-6); 1,2,4-Trichlorobenzene (CAS No. 120-82-1); 1,3,5-Trichlorobenzene (CAS No. 108-70-3) 1,2,3,4-Tetrachlorobenzene (CAS No. 634-66-2) 1,2,3,5-Tetrachlorobenzene (CAS No. 634-90-2); 1,2,4,5-Tetrachlorobenzene (CAS No. 95-94-3); Pentachlorobenzene (CAS No. 608-93-5); Hexachlorobenzene (CAS No. 118-74-1); 2-Chlorotoluene (CAS No. 95-49-8) 3-Chlorotoluene (CAS No. 108-41-8) 4-Chlorotoluene (CAS No. 106-43-4) 2,3-Dichlorotoluene (CAS No. 32768-54-0) 2,5-Dichlorotoluene (CAS No. 19398-61-9) 2,6-Dichlorotoluene (CAS No. 118-69-4) 2,4-Dichlorotoluene (CAS No. 95-73-8) 3,4-Dichlorotoluene (CAS No. 95-75-0); 3,5-Dichlorotoluene (CAS No. 25186-47-4) 2,3,6-Trichlorotoluene (CAS No. 2077-46-5) 2,4,5-Trichlorotoluene (CAS No. 6639-30-1) 2,3,4-Trichlorotoluene (CAS No. 7359-72-0) 3,4,5-Trichlorotoluene (CAS No. 21472-86-6) 2,4,6-Trichlorotoluene (CAS No. 23749-65-7) 2,3,4,5-Tetrachlorotoluene (CAS No. 76057-12-0) 2,3,4,6-Tetrachlorotoluene (CAS No. 875-40-1); 2,3,5,6-Tetrachlorotoluene (CAS No. 29733-70-8); 2,3,4,5,6-Pentachlorotoluene (CAS No. 877-11-2);		

## Test Performed: Chlorotoluenes Content

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 26/40

Test Performed: Chlorotoluenes Content		
Sample Number:	Sludge	
	Result	Requirements
2-Chlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
3-Chlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
4-Chlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,5-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,6-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,4-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
3,4-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
3,5-Dichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,6-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,4,5-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,4-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
3,4,5-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,4,6-Trichlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,4,5-Tetrachlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,4,6-Tetrachlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,5,6-Tetrachlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
2,3,4,5,6-Pentachlorotoluene	<0.2 mg/kg	< 0.2 mg/kg
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "mg/kg" means milligrams per kilogram. 2-Chlorotoluene (CAS No. 95-49-8); 3-Chlorotoluene (CAS No. 108-41-8) 4-Chlorotoluene (CAS No. 106-43-4) 2,3-Dichlorotoluene (CAS No. 32768-54-0) 2,5-Dichlorotoluene (CAS No. 19398-61-9) 2,6-Dichlorotoluene (CAS No. 118-69-4) 2,4-Dichlorotoluene (CAS No. 95-73-8); 3,4-Dichlorotoluene (CAS No. 95-75-0); 3,5-Dichlorotoluene (CAS No. 25186-47-4); 2,3,6-Trichlorotoluene (CAS No. 2077-46-5) 2,4,5-Trichlorotoluene (CAS No. 6639-30-1) 2,3,4-Trichlorotoluene (CAS No. 7359-72-0) 3,4,5-Trichlorotoluene (CAS No. 21472-86-6) 2,4,6-Trichlorotoluene (CAS No. 23749-65-7) 2,3,4,5-Tetrachlorotoluene (CAS No. 76057-12-0) 2,3,4,6-Tetrachlorotoluene (CAS No. 875-40-1); 2,3,5,6-Tetrachlorotoluene (CAS No. 29733-70-8); 2,3,4,5,6-Pentachlorotoluene (CAS No. 877-11-2);		

Test Performed: Bisphenol A		
Sample Number:	Untreated	
	Result	Requirements
Bisphenol A (BPA)	<10.0 µg/L	< 10.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 27/40

Test Performed: Bisphenol A		
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		
Bisphenol A (BPA) (CAS No. 80-05-7);		

Test Performed: UV Absorbers		
Sample Number:	Untreated	
	Result	Requirements
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	<100.0 µg/L	< 100.0 µg/L
2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	<100.0 µg/L	< 100.0 µg/L
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	<100.0 µg/L	< 100.0 µg/L
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	<100.0 µg/L	< 100.0 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (CAS No. 3864-99-1); 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (CAS No. 36437-37-3) 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS No. 3846-71-7) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) (CAS No. 25973-55-1);		

Test Performed: Dimethylformamide (DMFa)		
Sample Number:	Untreated	
	Result	Requirements

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 28/40

Test Performed: Dimethylformamide (DMFa)		
N,N-Dimethylformamide (DMFa)	<1000.0 µg/L	< 1000.0 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		
N,N-Dimethylformamide (DMFa) (CAS No. 68-12-2)		

Test Performed: Permethrin		
<b>Sample Number:</b>	Untreated	
	<b>Result</b>	<b>Requirements</b>
Permethrin	<500.0 µg/L	< 500.0 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		
Permethrin (CAS No. 52645-53-1);		

Test Performed: Quinoline		
<b>Sample Number:</b>	Untreated	
	<b>Result</b>	<b>Requirements</b>
Quinoline	<50.0 µg/L	< 50.0 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 29/40

## Test Performed: Quinoline

Quinoline (CAS No. 91-22-5);

## Test Performed: Triclosan

Sample Number:	Untreated	
	Result	Requirements
Triclosan	<100.0 µg/L	< 100.0 µg/L
Conclusion	PASS	

### Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

Triclosan (CAS No. 3380-34-5);

## Test Performed: o-Phenylphenol

Sample Number:	Untreated	
	Result	Requirements
o-Phenylphenol (+salts)	<100.0 µg/L	< 100.0 µg/L
Conclusion	PASS	

### Remark:

1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.
2. "<" means less than "≤" means less than or equal to.
3. "µg/L" means micrograms per liter.

o-Phenylphenol (+salts) (CAS No. 90-43-7)

## Test Performed: Thiourea

Sample Number:	Untreated	
	Result	Requirements
Thiourea	<50.0 µg/L	< 50.0 µg/L
Conclusion	PASS	

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 30/40

Test Performed: Thiourea
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.
Thiourea (CAS No. 62-56-6);

Test Performed: 2-(2-Aminoethylamino)ethanol (AEEA)		
Sample Number:	Untreated	
	Result	Requirements
2-(2-Aminoethylamino)ethanol (AEEA)	<500.0 µg/L	< 500.0 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		
2-(2-Aminoethylamino)ethanol (AEEA) (CAS No. 111-41-1)		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 31/40

Test Performed: Glycols		
Sample Number:	Untreated	
	Result	Requirements
2-Ethoxyethylacetate (CAS No. 111-15-9)	<50.0 µg/L	< 50.0 µg/L
Bis-(2-methoxyethyl) ether (CAS No. 111-96-6)	<50.0 µg/L	< 50.0 µg/L
2-Ethoxyethanol (CAS No. 110-80-5)	<50.0 µg/L	< 50.0 µg/L
Ethylene glycol dimethyl ether (CAS No. 110-71-4)	<50.0 µg/L	< 50.0 µg/L
2-Methoxyethanol (CAS No. 109-86-4)	<50.0 µg/L	< 50.0 µg/L
Triethylene glycol dimethyl ether (CAS No. 112-49-2)	<50.0 µg/L	< 50.0 µg/L
2-Methoxyethylacetate (CAS No. 110-49-6)	<50.0 µg/L	< 50.0 µg/L
2-Methoxypropylacetate (CAS No. 70657-70-4)	<50.0 µg/L	< 50.0 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 32/40

Test Performed: Organotin Compounds		
Sample Number:	Untreated	
	Result	Requirements
Monobutyltin (MBT)	0.02 µg/L	< 0.01 µg/L
Dibutyltin (DBT)	<0.01 µg/L	< 0.01 µg/L
Tributyltin (TBT)	<0.01 µg/L	< 0.01 µg/L
Tetrabutyltin (TeBT)	<0.01 µg/L	< 0.01 µg/L
Triphenyltin (TPhT)	<0.01 µg/L	< 0.01 µg/L
Monooctyltin (MOT)	<0.01 µg/L	< 0.01 µg/L
Diocyltin (DOT)	<0.01 µg/L	< 0.01 µg/L
Tricyclohexyltin (TCyT)	<0.01 µg/L	< 0.01 µg/L
Triocyltin (TOcT)	<0.01 µg/L	< 0.01 µg/L
Tripropyltin (TPrT)	<0.01 µg/L	< 0.01 µg/L
Diphenyltin (DPhT)	<0.01 µg/L	< 0.01 µg/L
Dipropyltin (DnPT/DProT)	<0.01 µg/L	< 0.01 µg/L
Dimethyltin (DMT)	<0.01 µg/L	< 0.01 µg/L
Monomethyltin (MMT)	<0.01 µg/L	< 0.01 µg/L
Trimethyltin (TMT)	<0.01 µg/L	< 0.01 µg/L
Tetraethyltin (TeET)	0.18 µg/L	< 0.01 µg/L
Monophenyltin (MPT)	<0.01 µg/L	< 0.01 µg/L
Tetraoctyltin (TeOT)	<0.01 µg/L	< 0.01 µg/L
Conclusion	FAIL	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "≤" means less than or equal to. 3. "µg/L" means micrograms per liter.		

Test Performed: Polycyclic Aromatic Hydrocarbons (PAHs)		
Sample Number:	Untreated	
	Result	Requirements
Acenaphthylene	<1.0 µg/L	< 1.0 µg/L
Acenaphthene	<1.0 µg/L	< 1.0 µg/L
Fluorene	<1.0 µg/L	< 1.0 µg/L
Phenanthrene	<1.0 µg/L	< 1.0 µg/L
Anthracene	<1.0 µg/L	< 1.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.





# Test Report

REPORT NO 1001876508

PAGE: PAGE 33/40

Test Performed: Polycyclic Aromatic Hydrocarbons (PAHs)		
Fluoranthene	<1.0 µg/L	< 1.0 µg/L
Pyrene	<1.0 µg/L	< 1.0 µg/L
Naphthalene	<1.0 µg/L	< 1.0 µg/L
Benzo(a)anthracene	<1.0 µg/L	< 1.0 µg/L
Chrysene	<1.0 µg/L	< 1.0 µg/L
Benzo(b)fluoranthene	<1.0 µg/L	< 1.0 µg/L
Benzo(k)fluoranthene	<1.0 µg/L	< 1.0 µg/L
Benzo(a)pyrene	<1.0 µg/L	< 1.0 µg/L
Dibenzo(a,h)anthracene	<1.0 µg/L	< 1.0 µg/L
Benzo(g,h,i)perylene	<1.0 µg/L	< 1.0 µg/L
Indeno(123-cd)pyrene	<1.0 µg/L	< 1.0 µg/L
Benzo(e)pyrene	<1.0 µg/L	< 1.0 µg/L
Benzo(j)fluoranthene	<1.0 µg/L	< 1.0 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "µg/L" means micrograms per liter.		
Acenaphthylene (CAS No. 208-96-8); Acenaphthene (CAS No. 83-32-9); Fluorene (CAS No. 86-73-7); Phenanthrene (CAS No. 85-01-8); Anthracene (CAS No. 120-12-7); Fluoranthene (CAS No. 206-44-0); Pyrene (CAS No. 129-00-0); Naphthalene (CAS No. 91-20-3); Benzo(a)anthracene (CAS No. 56-55-3); Chrysene (CAS No. 218-01-9); Benzo(b)fluoranthene (CAS No. 205-99-2); Benzo(k)fluoranthene (CAS No. 207-08-9); Benzo(a)pyrene (CAS No. 50-32-8); Dibenzo(a,h)anthracene (CAS No. 53-70-3); Benzo(g,h,i)perylene (CAS No. 191- 24-2); Indeno(123-cd)pyrene (CAS No. 193-39-5); Benzo(e)pyrene (CAS No. 192-97-2); Benzo(j)fluoranthene (CAS No. 205-82-3);		

Test Performed: Polycyclic Aromatic Hydrocarbons (PAHs) Content		
Sample Number:	Sludge	
	Result	Requirements
Acenaphthylene	<0.2 mg/kg	< 0.2 mg/kg
Acenaphthene	<0.2 mg/kg	< 0.2 mg/kg
Fluorene	<0.2 mg/kg	< 0.2 mg/kg
Phenanthrene	<0.2 mg/kg	< 0.2 mg/kg
Anthracene	<0.2 mg/kg	< 0.2 mg/kg
Fluoranthene	<0.20 mg/kg	< 0.2 mg/kg

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 34/40

Test Performed: Polycyclic Aromatic Hydrocarbons (PAHs) Content		
Pyrene	<0.2 mg/kg	< 0.2 mg/kg
Naphthalene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(a)anthracene	<0.2 mg/kg	< 0.2 mg/kg
Chrysene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(b)fluoranthene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(k)fluoranthene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(a)pyrene	<0.2 mg/kg	< 0.2 mg/kg
Dibenzo(a,h)anthracene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(g,h,i)perylene	<0.2 mg/kg	< 0.2 mg/kg
Indeno(123-cd)pyrene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(e)pyrene	<0.2 mg/kg	< 0.2 mg/kg
Benzo(j)fluoranthene	<0.2 mg/kg	< 0.2 mg/kg
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "mg/kg" means milligrams per kilogram. Acenaphthylene (CAS No. 208-96-8); Acenaphthene (CAS No. 83-32-9); Fluorene (CAS No. 86-73-7); Phenanthrene (CAS No. 85-01-8); Anthracene (CAS No. 120-12-7); Fluoranthene (CAS No. 206-44-0); Pyrene (CAS No. 129-00-0); Naphthalene (CAS No. 91-20-3); Benzo(a)anthracene (CAS No. 56-55-3); Chrysene (CAS No. 218-01-9); Benzo(b)fluoranthene (CAS No. 205-99-2); Benzo(k)fluoranthene (CAS No. 207-08-9); Benzo(a)pyrene (CAS No. 50-32-8); Dibenzo(a,h)anthracene (CAS No. 53-70-3); Benzo(g,h,i)perylene (CAS No. 191-24-2); Indeno(123-cd)pyrene (CAS No. 193-39-5); Benzo(e)pyrene (CAS No. 192-97-2); Benzo(j)fluoranthene (CAS No. 205-82-3);		

Test Performed: Perfluorinated and Polyfluorinated Chemicals (PFCs)		
Sample Number:	Untreated	
	Result	Requirements
Perfluorooctane sulfonate (PFOS) (CAS No 1763-23-1)	<0.01 µg/L	< 0.01 µg/L
Perfluorobutane sulfonate (PFBS) (CAS No 375-73-5)	<0.01 µg/L	< 0.01 µg/L
Perfluorohexane sulfonate (PFHxS) (CAS No 355-46-4)	<0.01 µg/L	< 0.01 µg/L
Perfluoroheptane sulfonate (PFHpS) (CAS No 375-92-8)	<0.01 µg/L	< 0.01 µg/L
Perfluorodecane sulfonate		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 35/40

Test Performed: Perfluorinated and Polyfluorinated Chemicals (PFCs)		
(PFDS/PFDcS) (CAS No 335-77-3, 126105-34-8)	<0.01 µg/L	< 0.01 µg/L
Perfluorobutanoate (PFBA) (CAS No 375-22-4)	<1.00 µg/L	< 1.0 µg/L
Perfluoropentanoate (PFPA) (CAS No 2706-90-3)	<1.00 µg/L	< 1.0 µg/L
Perfluorohexanoate (PFHxA) (CAS No 307-24-4)	<1.00 µg/L	< 1.0 µg/L
Perfluoroheptanoate (PFHpA) (CAS No 375-85-9)	<1.00 µg/L	< 1.0 µg/L
Perfluorooctanoate (PFOA) (CAS No 335-67-1)	<0.01 µg/L	< 0.01 µg/L
Perfluorononanoate (PFNA) (CAS No 375-95-1)	<1.00 µg/L	< 1.0 µg/L
Perfluorodecanoate (PFDA/PFDcA) (CAS No 335-76-2)	<1.00 µg/L	< 1.0 µg/L
Perfluoroundecanoate (PFUnA) (CAS No 2058-94-8)	<1.00 µg/L	< 1.0 µg/L
Perfluorododecanoate (PFDoA) (CAS No 307-55-1)	<1.00 µg/L	< 1.0 µg/L
Perfluorotetradecanoate (PFTeA) (CAS No 376-06-7)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-octane sulfonic acid (1H,1H,2H,2H-PFOS) (CAS No 27619-97-2)	<1.0 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) (CAS No 2043-47-2)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) (CAS No 647-42-7)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) (CAS No 678-39-7)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) (CAS No 865-86-1)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) (CAS No 17527-29-6)	<1.00 µg/L	< 1.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 36/40

Test Performed: Perfluorinated and Polyfluorinated Chemicals (PFCs)		
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA) (CAS No 27905-45-9)	<1.00 µg/L	< 1.0 µg/L
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) (CAS No 17741-60-5)	<1.00 µg/L	< 1.0 µg/L
Perfluoro-3,7-dimethyloctanoate (PF-3,7-DMOA) (CAS No 172155-07-6)	<1.00 µg/L	< 1.0 µg/L
7H-dodecafluoroheptanoate (HPFHpA) (CAS No 1546-95-8)	<1.00 µg/L	< 1.0 µg/L
2H,2H-Perfluorodecanoic acid (H2PFDA) (CAS No 27854-31-5)	<1.00 µg/L	< 1.0 µg/L
Conclusion	PASS	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "µg/L" means micrograms per liter.		

Test Performed: Phthalates		
Sample Number:	Untreated	
	Result	Requirements
Di-iso-nonyl phthalate,DINP	<10.0 µg/L	< 10.0 µg/L
Di-n-octyl phthalate,DNOP	<10.0 µg/L	< 10.0 µg/L
Bis(2-ethylhexyl) phthalate,DEHP	14.7 µg/L	< 10.0 µg/L
Diisodecyl phthalate,DIDP	32.7 µg/L	< 10.0 µg/L
Dibutyl phthalate,DBP	<10.0 µg/L	< 10.0 µg/L
Benzyl butyl phthalate,BBP	<10.0 µg/L	< 10.0 µg/L
Di-iso-butyl phthalate,DIBP	<10.0 µg/L	< 10.0 µg/L
Diisopentyl phthalate,DIPP	<10.0 µg/L	< 10.0 µg/L
Bis(2-methoxyethyle) phthalate,BMEP	<10.0 µg/L	< 10.0 µg/L
Diethyl phthalate,DEP	<10.0 µg/L	< 10.0 µg/L
Di-n-propyl phthalate,DPrP	<10.0 µg/L	< 10.0 µg/L
Di-n-pentyl phthalate,DnPP	<10.0 µg/L	< 10.0 µg/L
Di-n-hexyl phthalate,DHP	<10.0 µg/L	< 10.0 µg/L

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 37/40

Test Performed: Phthalates		
Dicyclohexyl phthalate,DCHP	<10.0 µg/L	< 10.0 µg/L
Dinonyl phthalate,DNP	<10.0 µg/L	< 10.0 µg/L
Di-iso-octyl phthalate,DIOP	<10.0 µg/L	< 10.0 µg/L
Di-iso-heptyl phthalate,DIHP	<10.0 µg/L	< 10.0 µg/L
Di- (heptyl, nonyl, undecyl) phthalate),DHNUP	<10.0 µg/L	< 10.0 µg/L
Conclusion	FAIL	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "µg/L" means micrograms per liter.		
Di-iso-nonyl phthalate,DINP (CAS No. 28553-12-0/68515-48-0) Di-n-octyl phthalate,DNOP (CAS No. 117-84-0) Bis(2-ethylhexyl) phthalate,DEHP (CAS No. 117-81-7) Diisodecyl phthalate,DIDP (CAS No. 26761-40-0/ 68515-49-0) Dibutyl phthalate,DBP (CAS No. 84- 74- 2) Benzyl butyl phthalate,BBP (CAS No. 85-68-7) Di-iso-butyl phthalate,DIBP (CAS No. 84-69-5) Diisopentyl phthalate,DIPP (CAS No. 605-50- 5) Bis(2-methoxyethyle) phthalate,BMEP (CAS No. 117-82-8) Diethyl phthalate,DEP (CAS No. 84-66-2) Di-n-propyl phthalate,DPrP (CAS No. 131-16-8) Di-n-pentyl phthalate,DnPP (CAS No. 131-18-0) Di-n-hexyl phthalate,DHP (CAS No. 84-75-3) Dicyclohexyl phthalate,DCHP (CAS No. 84-61-7) Dinonyl phthalate,DNP (CAS No. 84-76-4) Di-iso-octyl phthalate,DIOP (CAS No. 27554- 26-3) Di-iso-heptyl phthalate,DIHP (CAS No. 71888-89-6 /41451-28) Di- (heptyl, nonyl, undecyl) phthalate),DHNUP (CAS No. 68515-42-4);		

Test Performed: Halogenated Solvents		
Sample Number:	Untreated	
	Result	Requirements
1,2-Dichloroethane	<1.0 µg/L	< 1.0 µg/L
Trichloroethylene	<1.0 µg/L	< 1.0 µg/L
Tetrachloroethylene	9.2 µg/L	< 1.0 µg/L
Dichloromethane	<1.0 µg/L	< 1.0 µg/L
Conclusion	FAIL	
Remark: 1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number. 2. "<" means less than "<=" means less than or equal to. 3. "µg/L" means micrograms per liter.		
1,2-Dichloroethane (CAS No. 107-06-2); Trichloroethylene (CAS No. 79-01-6); Tetrachloroethylene (CAS No. 127-18-4) Dichloromethane (CAS No. 75-09-2);		

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.



# Test Report

REPORT NO 1001876508

PAGE: PAGE 38/40

<b>Test Performed: Halogenated Solvents</b>

## Test Performed: Volatile Organic Compounds (VOC)

Sample Number:	Untreated	
	Result	Requirements
Benzene	<1.0 µg/L	< 1.0 µg/L
Toluene	<1.0 µg/L	< 1.0 µg/L
Total Xylenes	<1.0 µg/L	< 1.0 µg/L
p-Cresol	<1.0 µg/L	< 1.0 µg/L
m-Cresol	<1.0 µg/L	< 1.0 µg/L
o-Cresol	<1.0 µg/L	< 1.0 µg/L
Conclusion	PASS	

Remark:  
1. Regarding the results found the symbol "<" followed by a number indicates that the concentration of the substance is less than the limit of quantification expressed by that number.  
2. "<" means less than "≤" means less than or equal to.  
3. "µg/L" means micrograms per liter.

Benzene (CAS No. 71-43-2); Toluene (CAS No. 108-88-3); Total Xylenes (CAS No. 1330-20-7); p-Cresol (CAS No. 106-44-5); m-Cresol (CAS No. 108-39-4); o-Cresol (CAS No. 95-48-7);

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.

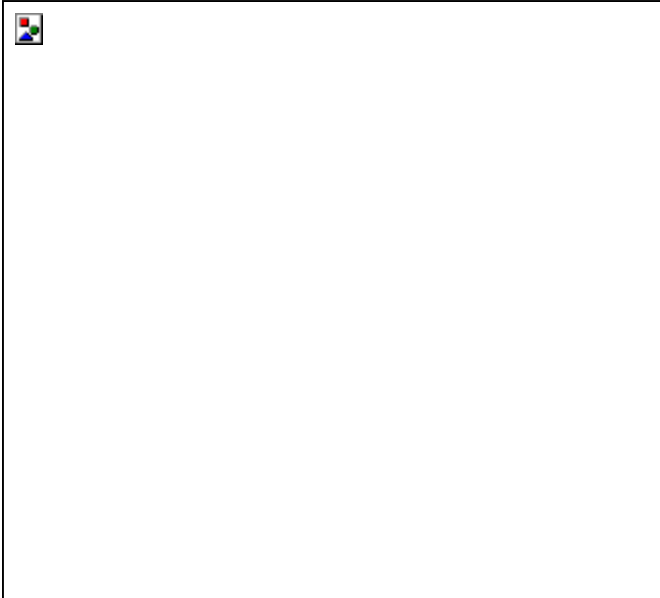


# Test Report

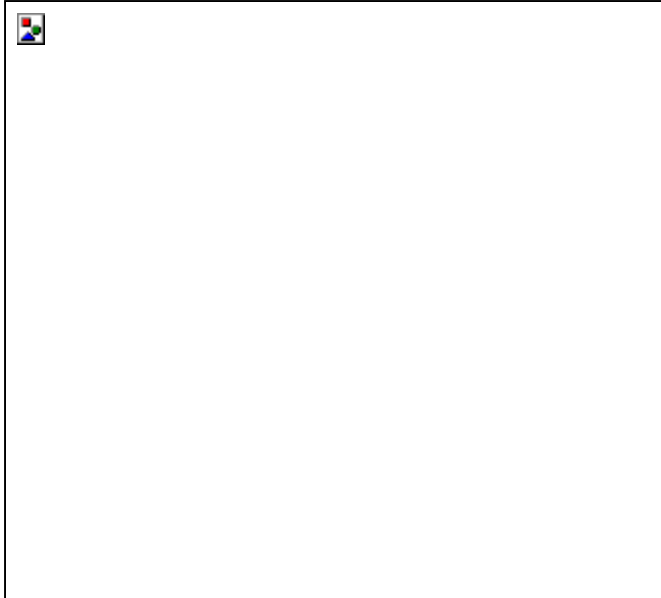
REPORT NO 1001876508

PAGE: PAGE 39/40

## ADDITIONAL PHOTO:



Untreated Wastewater Sampling Point



Effluent Water Sampling Point

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.





# Test Report

REPORT NO 1001876508

PAGE: PAGE 40/40



Sludge Sampling Point

© 2016 UL. All rights reserved. This report is issued for the exclusive use of the client to whom it is addressed. No use of the UL Contracting Party's or any of its affiliates' names, abbreviations, symbols, or marks is permitted except as expressly authorized in writing by UL. The UL Contracting Party has not performed a complete assessment of the client's product, and this report is limited to an assessment of the client's samples' conformity to the agreed upon or client provided: requirements, specifications and/or protocols and does not express any opinion regarding the bulk from which the samples were drawn. This report does not result in or imply safety, performance or other certification, and the UL Contracting Party and its affiliates have no responsibility to make any independent safety assessment of any samples. The total liability of the UL Contracting Party with respect to services rendered is limited to the amount of consideration paid for such service and under no circumstances shall the UL Contracting Party be liable for any consequential, incidental or punitive damages. This report is intended for exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our written permission. Please Note that: The result apply to the sample as received. Data Contained in the paragraph 'Sample information' has been declared by the customer, the laboratory is not responsible for the result that could be influenced by such data. Decision Rule: The declaration of conformity (PASS or FAIL) is given not taking into account the measurement uncertainty. The uncertainty will be systematically added on the test report in case of borderline results or upon Client request as required by ISO 17025. Risk Associated to the decision Rule: In Case of borderline result, the test, if repeated by another laboratory, can give a different Conformity declaration.







---

**End of Report**