



[ANALYTICAL REPORT]

[TREATED WASTE WATER EFFLUENT]

[MULTIPLE PARAMETER ANALYSIS]

PREPARED FOR:

[3D TECHNOLOGIES]

CLIENT DETAILS

LABORATORY DETAILS

Client	3D Technologies	Manager	Rashid Maqbool
Address	B-02, First Floor Carlton Court P-2, Main Korangi Road, DHA Phase II Ext. Karachi	Laboratory Address	Chemical, Environmental & Microbiological Laboratory Plot No. 07, Din Muhammad Town, 19-KM Off Multan Road, Lahore.
Contact	Mr. Nasir Rahim Khan Lodhi	Telephone	+92 42 37515415-18
Telephone	+92 300 8486151 / +92 21 35383260	Fax	+92 42 37515420
Fax	-	Email	rashid.maqbool@sgs.com
Email	nkr@3dtechnologies.com.pk	SGS Reference	Env-Lhr-861/2014
Project	(CCBPL Lahore)	Sample Collected	10-12-2014
Order Number	(not specified)	Report Number	585193
Samples	Treated Waste Water Effluent	Date Reported	30-12-2014

COMMENTS

This report is not valid for any negotiation.
 The remaining portion of the sample (s) will be disposed off after one week unless otherwise instructed. (Conditions Apply)
 Uncertainty of the test can be provided upon request.

SIGNATORIES

Muhammad Ikraam
 Laboratory In-Charge QA/QC

Rashid Maqbool
 Deputy Manager

Sample No.	Env-Lhr-861/2014-01			
Client ID	Final Discharge			
Sample Matrix	Treated Waste Water			
Sample Date / Time	Effluent			
Sample Receipt Date / Time	10-12-14 18:00 11-12-14 11:55			
Sampled By	SGS			Limits as per
Parameters	Units	LOR	Results	NEQS

Color APHA-2120 C 22nd Edition

Color	Pt-Co	5.0	<5.0	-
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pH APHA 4500H+ B 22nd Edition

*pH @ 25 C	pH unit	0.1	7.02	06 – 09
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Oil & Grease USEPA 1664 B 22nd Edition

Oil & grease	mg/L	1.0	<1.0	10.00
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Total Dissolved Solid APHA 2540 C 22nd Edition

*Solids, Total Dissolved (TDS)	mg/L	5.0	1537.0	3500.0
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Total Suspended Solid APHA 2540 D 22nd Edition

*Solids, Total Suspended (TSS)	mg/L	5.0	7.0	200.0
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Chemical Oxygen Demand(COD) APHA-5220 D 22nd Edition

*COD	mg/L	5.0	36.0	150.0
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Detergents, Anionic APHA-5540 C 22nd Edition

Detergents, Anionic	mg/L	0.10	<0.10	20.00
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Ammonia APHA-4500NH₃ D 22nd Edition

NH ₃	mg/L	0.1	<0.1	40.00
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Biochemical Oxygen Demand (BOD₅) APHA-5210 B 22nd Edition

*(BOD ₅) @ 20 °C	mg/L	3.0	7.0	80.0
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Sulfate APHA 4500 SO₄²⁻ C

*Sulfate (SO ₄ ²⁻)	mg/L	5.0	82.31	600.0
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Chlorine Macro APHA 4500 Cl B & C

Chlorine (Residual)	mg/L	0.1	<0.1	1.00
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Nitrogen, Total Kjeldahl (TKN) Macro APHA-4500org B 22nd Edition

Nitrogen, Total Kjeldahl (TKN)	mg/L	0.1	0.89	-
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Phosphorous, Total APHA 4500P C

Phosphorous, Total	mg/L	0.05	0.61	-
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Metals by Atomic Absorption Spectroscopy / ICP-OES APHA 3111 D/3120 B

*Aluminum (Al)	mg/L	0.02	<0.02	-
*Cadmium (Cd)	mg/L	0.002	0.003	0.10
*Chromium (Cr)	mg/L	0.02	0.037	1.0
*Iron (Fe)	mg/L	0.1	0.036	8.0
*Lead (Pb)	mg/L	0.05	<0.05	0.50

Fecal Coliforms (E.coli) Multiple Tube Fermentation Technique APHA 9221 E 22nd Edition

* Fecal Coliforms (E.coli)	MPN/ 100ml	-	1.1×10 ³	-
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FOOTNOTE

TCC	Total Colony Count
P/A	Present / Absent
MPN	Most Probable Number
TPC	Total Plate Count
HPC	Heterotrophic Plate count
APC	Aerobic Plate Count
TVA	Total Viable Count & Total Bacteria
BAM	Bacteriological Analytical Manual
*	This analysis is covered by the scope of accreditation.
^	Test conducted at sub contracted lab SGS Karachi.
LOR	Limits Of Reporting (as per client request)
NEQS	National Environmental Quality Standards

Sample analyzed as received.

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Field Monitoring Data

Job No : ENV – LHR – 861 / 2014

Client Name / Address : 3 D Technologies / B-02, First floor Carlton Court P-2, Main Korangi Road DHA Phase II Ext Karachi.

Description Of Sample : Treated Waste Water Effluent (Coca Cola Lahore)

Marking (If Any) : Final Discharge **No. of Sample:** **01**

Sample Condition Upon Receipt: Satisfactory **Sample Collection Date :** **10-12-14**

Environmental Conditions: **Temperature :** **NA** **Humidity:** **NA**

Sr. #	Time	Temperature (°C)	pH (On Site)	DO (mg/L)
1.	11:00	22.4	7.0	5.39
2.	12:00	23.5	7.0	5.34
3.	13:00	23.8	7.0	5.35
4.	14:00	23.8	7.0	5.35
5.	15:00	23.5	7.0	5.41
6.	16:00	23.1	7.0	5.45
7.	17:00	22.8	7.0	5.49
8.	18:00	22.7	7.0	5.51

For and on behalf of,

SGS PAKISTAN (PVT.) LTD

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