



SOLUTION ENVIRONMENTAL & ANALYTICAL LABORATORY

WASTEWATER ANALYSIS REPORT

Client Name: Coca-Cola Beverages (Limited) Pakistan
Site Location: Coca-Cola Beverage Factory Near Dingi Village, Harripur.
Sampling Date: 28-02-2015
Nature of Sample : Waste Water
Completion Date: 05-03-2015
Number of Samples: 1 (Grab)
Sampling Location: Harrow River
Sample Collected By: SEAL
Reference No: SEAL/CCBLP/15/002 WW

Results:-

Sr. No.	Parameters	Unit	Result	NEQS
1	Temperature	^o C	21	40
2	Ph	---	7.36	6-9
3	Chemical Oxygen Demand (COD)	mg/l	296	150
4	Biochemical Oxygen Demand (BOD ₅)	mg/l	108	80
5	Total Dissolved Solids (TDS)	g/l	571	3500
6	Total Suspended Solids (TSS)	mg/l	180	200
7	Oil & Grease	mg/l	BDL	10
8	Chromium (Hexa & Trivalent)	mg/l	0.06	1.0
9	Sulphate (SO ₄ ²⁻)	mg/l	102	600
10	Iron (Fe ²⁺)	mg/l	04	8
11	Chlorine (Cl ₂) Free	mg/l	BDL	1.0
12	Flouride (F)	mg/l	2,4	20
13	Chloride	mg/l	120	1000
14	Ammonia (NH ₃)	mg/l	22	40
15	Cadmium	mg/l	BDL	0.1
16	Lead	mg/l	0.02	0.5
17	Arsenic	mg/l	0.4	1.0
18	Cupper	mg/l	0.02	1.0
19	Barium	mg/l	BDL	1.5
20	Selenium	mg/l	BDL	0.5
21	Silver	mg/l	0.2	1.0
22	Pesticides	mg/l	BDL	0.15
23	Manganese	mg/l	BDL	1.5
24	Zinc	mg/l	2.4	5.0
25	Nickel	mg/l	BDL	1.0



HEAD OFFICE :

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EPA CERTIFIED

SOLUTION ENVIRONMENTAL & ANALYTICAL LABORATORY

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Site Location: Coca-Cola Beverage Factory Near Dingi Village, Harripur.
Sampling Date: 28-02-2015
Nature of Sample : Waste Water
Completion Date: 05-03-2015
Number of Samples: 1 (Grab)
Sampling Location: Harrow River
Sample Collected By: SEAL
Reference No: SEAL/CCBLP/15/002 WW

Results:-

Sr. No.	Parameters	Unit	Result	NEQS
26	Boron	mg/l	0.6	6.0
27	Mercury	mg/l	BDL	0.01
28	Total Toxic Metals	mg/l	0.64	2.0
29	Sulphide (S-2)	mg/l	0.5	1.0
30	An Ionic Detergent as MBAS	mg/l	0.02	20
31	Phenolic Compounds	mg/l	0.05	0.1
32	Cynaide	mg/l	BDL	2.0

Note:

- BDL (Below Detection Limit)
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- The responsibility of the ethical use of the results reported in this report lies with the client. Consequently, the laboratory is absolved of its responsibility for any claim that may result through the use by the client or others of the results appearing in this report.
- The left over samples (if so available) shall be retained for fifteen days after the issuance of the report unless otherwise negotiated between the client and the laboratory.

Sample Analyzed By: Shabnam Shahzad

Signature:

Name of Chief Analyst with Seal: **TAHIR SHAH**

Signature of Chief Analyst: Chief Chemist

Signature of Incharge Environmental Laboratory:

Name: Aleem Butt

Designation: Chief Environmentalist

Date: 10-03-2015

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SOLUTION ENVIRONMENTAL & ANALYTICAL LABORATORY

DRINKING WATER ANALYSIS REPORT

Client Name: Coca-Cola Beverages (Limited) Pakistan **Sampling Location:** Coca-Cola Beverage Factory Near Dingi Village Harripur

Sampling Point: Tube Well **Nature of Sample:** Drinking Water

Sampling Date: 28-02-2015 **Date of Completion:** 05-03-2015

Sampling By: SEAL-Lahore **Reference No.:** SEAL/CCBLP/15/001 DW

Results:-

Sr. No.	Parameter	Unit	Result	WHO maximum allowable guideline value
1	Temperature	°C	2.0	----
2	Ph	--	7.5	6.5-8.5
3	Total Dissolved Solids (TDS)	mg/l	223	1000
4	Total Suspended Solids (TSS)	mg/l	23	---
5	Chloride	mg/l	28	250
6	Fluoride	mg/l	0.04	1.5
7	Taste	Object./unobj.	Unobject.	Unobject
8	Odour	Object./unobj.	Unobject.	Unobject.
9	Colour	TCU	0	15
10	Iron	mg/l	BDL	0.3
11	Sodium	mg/l	24	200
12	Nitrate (as NO ₃ ⁻)	mg/l	2.0	50
13	Nitrite (as NO ₂ ⁻)	mg/l	BDL	3
14	Ammonia	mg/l	0	1.5
15	Hydrogen Sulphide (H ₂ S)	mg/l	BDL	0.05
16	Sulphate	mg/l	14	250
17	Lead	mg/l	0.01	0.10
18	Total Hardness as CaCO ₃	mg/l	60	500
19	Turbidity	NTU	0	5
20	Zinc	mg/l	0.04	3
21	Manganese	mg/l	0.02	0.1
22	Benzene	mg/l	BDL	10-120
23	Aluminum	mg/l	BDL	0.2
24	Molybdenum	mg/l	BDL	0.070
25	Chromium	mg/l	BDL	0.050

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SOLUTION ENVIRONMENTAL & ANALYTICAL LABORATORY

Client Name: Coca-Cola Beverages (Limited) Pakistan
Sampling Location: Coca-Cola Beverage Factory Near Dingi Village Harripur
Sampling Point: Tube Well
Nature of Sample: Drinking Water
Sampling Date: 28-02-2015
Date of Completion: 05-03-2015
Sampling By: SEAL-Lahore
Reference No.: SEAL/CCBLP/15/001 DW

Sr. No.	Parameter	Unit	Result	WHO maximum allowable guideline value
26	Cadmium	mg/l	BDL	0.003
27	Boron	mg/l	BDL	0.300
28	Barium	mg/l	BDL	0.700
29	Antimony	mg/l	BDL	0.005
30	Arsenic	mg/l	BDL	0.010
31	Cyanide	mg/l	0.01	0.070
32	Mercury	mg/l	BDL	0.001
33	Nickel	mg/l	BDL	0.020
34	Total Coliform	Number/100ml	2.0	0/100 ml
35	E.Coli	Number/100ml	0	0/100 ml

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Sample Analyzed By: Shabnam Shahzad

Signature:

Name of Chief Analyst with Seal: **TAHIR SHAH**

Signature of Chief Analyst: **Chief Chemist**

Signature of Incharge Environmental Laboratory: _____

Name: Aleem Butt

Designation: Chief Environmentalist

Date: 10-03-2015

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Sampling Date: 28-02-2015 **Nature of Sample :** Waste Water
Completion Date: 05-03-2015 **Number of Samples:** 1 (Grab)
Sampling Location: Jharri Khassi Drain **Sample Collected By:** SEAL
Reference No: SEAL/CCBLP/15/001 WW

Results:-

Sr. No.	Parameters	Unit	Result	NEQS
1	Temperature	^o C	23	40
2	pH	---	7.26	6-9
3	Chemical Oxygen Demand (COD)	mg/l	590	150
4	Biochemical Oxygen Demand (BOD ₅)	mg/l	260	80
5	Total Dissolved Solids (TDS)	g/l	1012	3500
6	Total Suspended Solids (TSS)	mg/l	159	200
7	Oil & Grease	mg/l	BDL	10
8	Chromium (Hexa & Trivalent)	mg/l	0.04	1.0
9	Sulphate (SO ₄ ²⁻)	mg/l	128	600
10	Iron (Fe ²⁺)	mg/l	4.4	8
11	Chlorine (Cl ₂) Free	mg/l	BDL	1.0
12	Flouride (F)	mg/l	06	20
13	Chloride	mg/l	166	1000
14	Ammonia (NH ₃)	mg/l	28	40
15	Cadmium	mg/l	BDL	0.1
16	Lead	mg/l	0.2	0.5
17	Arsenic	mg/l	0.02	1.0
18	Copper	mg/l	0.01	1.0
19	Barium	mg/l	BDL	1.5
20	Selenium	mg/l	BDL	0.5
21	Silver	mg/l	0.01	1.0
22	Pesticides	mg/l	BDL	0.15
23	Manganese	mg/l	BDL	1.5
24	Zinc	mg/l	2.0	5.0
25	Nickel	mg/l	0.01	1.0



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Nature of Sample : Waste Water
Completion Date: 05-03-2015
Number of Samples: 1 (Grab)
Sampling Location: Jharri Khassi Drain
Sample Collected By: SEAL
Reference No: SEAL/CCBLP/15/001 WW

Results:-

Sr. No.	Parameters	Unit	Result	NEQS
26	Boron	mg/l	0.9	6.0
27	Mercury	mg/l	BDL	0.01
28	Total Toxic Metals	mg/l	0.25	2.0
29	Sulphide (S-2)	mg/l	0.8	1.0
30	An Ionic Detergent as MBAS	mg/l	04	20
31	Phenolic Compounds	mg/l	BDL	0.1
32	Cynaide	mg/l	BDL	2.0

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Signature: 

Name of Chief Analyst with Seal: **TAHIR SHAH**

Signature of Chief Analyst:  **Chief Chemist**

Signature of Incharge Environmental Laboratory: 

Name: Aleem Butt

Designation: Chief Environmentalist

Date: 10-03-2015

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SOLUTION ENVIRONMENTAL & ANALYTICAL LABORATORY

AMBIENT AIR MONITORING REPORT

Client Name: Coca-Cola Beverages (Limited) Pakistan Sample Location: Coca-Cola Beverage plant Near Dingi Village Harripur.

Monitoring Point: Near the public School Time Duration of Monitoring: 24 Hrs

Monitoring Date: 27-02-2015 Date of Completion of Analysis: 28-02-2015

Monitoring By: SEAL Reference No.: SEAL/CCBLP /15/001 AA

Results:

Sr. No.	Parameter	Duration	Unit	Results	PAK-NEQS
1	PM ₁₀	24 Hour	($\mu\text{g}/\text{m}^3$)	87	250
2	CO	24 Hour	$\mu\text{g}/\text{m}^3$	0.091	05
3	NO _X	24 Hour	($\mu\text{g}/\text{m}^3$)	0.028	80
4	SO _X	24 Hour	($\mu\text{g}/\text{m}^3$)	0.015	120
5	CO ₂	24 Hour	ppm	443	-----

NEQS: National Environmental Quality Standards

Note:

- Quality was assured through self calibration of the instrument.
- The measurements were carried out on client request.
- The client is responsible lawful usage of reported data in future.

Monitoring Supervisor: Touseef Tahir

Signature: 

Name of Chief Analyst with Seal:

TAHIR SHAH

Signature of Chief Analyst: 

Chief Chemist

Signature of Incharge Environmental Laboratory: 

Name: Aleem Butt

Designation: Chief Environmentalist

Date: 10-03-2015



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SOLUTION ENVIRONMENTAL & ANALYTICAL LABORATORY

NOISE LEVEL MONITORING REPORT

Client Name: Coca-Cola Beverages (Limited) Pakistan
Monitoring Date: 27-03-2015
Completion Date: 28-03-2015
Monitoring By: SEAL

Site Location: Coca-Cola Beverage Factory Near Dingi Village, Harripur
Instrument Used: Digital Sound Level Meter T.M 102
Time of Monitoring: 12:00 pm – 12:00 pm
Reference No.: SEAL/CCBLP/15/001 NM

Results:-

Sr. No	Time (Hours)	Noise Level (Leq)	NEQS (Silence zone)
1	13:00	46.2	Day Time 50 Night Time 45
2	14:00	45.4	
3	15:00	46.7	
4	16:00	47.1	
5	17:00	45.2	
6	18:00	47.3	
7	19:00	46.1	
8	20:00	45.0	
9	21:00	44.5	
10	22:00	44.2	
11	23:00	42.1	
12	00:00	41.6	
13	01:00	39.8	
14	02:00	40.4	
15	03:00	40.8	
16	04:00	41.7	
17	05:00	42.6	
18	06:00	44.7	
19	07:00	45.3	
20	08:00	44.1	
21	09:00	46.4	
22	10:00	45.8	
23	11:00	47.2	
24	12:00	45.1	
24 Hour Average		44.4	

NEQS: National Environmental Quality Standards



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Client Name:	Coca-Cola Beverages (Limited) Pakistan	Site Location	Coca-Cola Beverage Factory Near Dingi Village, Harripur
Monitoring Date:	27-03-2015	Instrument Used	Digital Sound Level Meter T.M 102
Completion Date:	28-03-2015	Time of Monitoring:	12:00 pm – 12:00 pm
Monitoring By:	SEAL	Reference No.:	SEAL/CCBLP/15/001 NM

Note:

- The average noise levels describe the overall ambient noise levels of the proposed site.
- Selected measurement units were dB (A) otherwise stated.
- Quality was assured through self calibration of the instrument.
- The measurements were carried out on client request.
- The client is responsible lawful usage of reported data in future.
- The report is not valid for any negotiations.

Monitoring Supervisor: Touseef Tahir

Signature: 

Name of Chief Analyst with Seal: 

TAHIR SHAH

Signature of Chief Analyst: 

Chief Chemist

Signature of Chief Environmentalist Laboratory: 

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