

Monthly Water Quality Monitoring Report August - September 2014

WEEKLY DWASA MEGHNA RIVER SURFACE WATER QUALITY MONITORING

(1) Sample location: Chaitankanda, Bishnondi, Meghna river

(GIS Location: 23° 45' 14.69 N & 90° 43' 18.07 E)

(2) Field Observations:

Upon arrival at a sampling site, record visual observations on the appearance of the water and

Sampling Week	Parameter	Observation
27th	Water color	Greenish/reddish/yellowish/muddy/colorless ✓
28 th	Water color	Greenish/reddish/yellowish/muddy/colorless ✓
29 th	Water color	Greenish/reddish/yellowish/muddy/colorless ✓
30 th	Water color	Greenish/reddish/yellowish/muddy/colorless ✓
31 th	Water color	Greenish/reddish/yellowish/muddy/colorless ✓
27th	Water appearance	Unusual amount of floating matter ✓ /debris/foam/weeds/plastic
28 th	Water appearance	Unusual amount of floating matter ✓ /debris/foam/weeds/plastic
29 th	Water appearance	Unusual amount of floating matter ✓ /debris/foam/weeds/plastic
30 th	Water appearance	Unusual amount of floating matter ✓ /debris/foam/weeds/plastic
31 th	Water appearance	Unusual amount of floating matter ✓ /debris/foam/weeds/plastic
27th	Rainfall in last 24h	Heavy ✓/Medium/ Low/ None
28 th	Rainfall in last 24h	Heavy/Medium/ Low/ None ✓
29 th	Rainfall in last 24h	Heavy/Medium/ Low/ None ✓
30 th	Rainfall in last 24h	Heavy/Medium/ Low / None✓
31 th	Rainfall in last 24h	Heavy/Medium/ Low / None✓
27th	Day	Cloudy ✓/ Sunny / Hot✓/ Cool
28 th	Day	Cloudy/ Sunny ✓ / Hot / Cool
29 th	Day	Cloudy/ Sunny ✓ / Hot / Cool
30 th	Day	Cloudy/ Sunny ✓ / Hot / Cool
31 th	Day	Cloudy/ Sunny ✓ / Hot ✓/ Cool
27th	Unusual Odor	Hydrogen Sulfide odor/ Musty odor/ Sewage odor/ None ✓
28 th	Unusual Odor	Hydrogen Sulfide odor/ Musty odor/ Sewage odor/ None ✓
29 th	Unusual Odor	Hydrogen Sulfide odor/ Musty odor/ Sewage odor/ None ✓
30 th	Unusual Odor	Hydrogen Sulfide odor/ Musty odor/ Sewage odor/ None ✓
31 th	Unusual Odor	Hydrogen Sulfide odor/ Musty odor/ Sewage odor/ None ✓




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(1) Sample location: Chaitankanda, Bishnondi, Meghna river

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27th	Biological Activity	Excessive growth of algal/ Phytoplankton/ Water Hyacinth v / None
28 th	Biological Activity	Excessive growth of algal/ Phytoplankton/ Water Hyacinth v / None
29 th	Biological Activity	Excessive growth of algal/ Phytoplankton/ Water Hyacinth v / None
30 th	Biological Activity	Excessive growth of algal/ Phytoplankton/ Water Hyacinth v / None
31 th	Biological Activity	Excessive growth of algal/ Phytoplankton/ Water Hyacinth v / None

(3.A) Water Quality Test Parameters (Field Tests)

Sampling Week	Date & Time	Depth (m)	Alkalinity	Temp. (oc)	pH	Salinity (g/l)	Condu. (µS/cm)	Turbi. (mg/l)	DO (mg/l)	TDS (mg/l)	NH3 (mg/l)	Hardness (mg/l)	Arsenic (mg/l)
27th	16-08-14 2.10 pm	7.5	30	28.7	7.37	0.03	68.8	20.49	7.4	32.5	0	30	-
28 th	23-08-14 12.05 pm	7.5	30	30.3	7.42	0.02	53.7	17.6	7.5	24.9	0	24	-
29 th	30-08-14 1.40 pm	7.75	36	29.9	7.31	0.02	51.7	16.86	7.4	24.6	0	30	-
30 th	05-09-14 11.15 am	7.5	27	31	7.22	0.03	60.1	18.13	7.24	28.2	0	36	0
31 th	13-09-14 3-00 pm	7.25	30	30.8	7.45	0.03	77.3	22.7	7.16	36.2	0	36	-

(3.B) Water Quality Parameters (Laboratory Tests)

Sampling Week	Date & Time	Depth	5 meter above from the bottom	2 meter above from the bottom	Color
27th	16-08-14 2.10 pm	7.5	10	12	8
28 th	23-08-14 12.05 pm	7.5	-	-	7.9
29 th	30-08-14 1.40 pm	7.75	15	17	7.8
30 th	05-09-14 11.15 am	7.5	-	-	7.6
31 th	13-09-14 3-00 pm	7.25	8	10	5

Sampling Week	Date & Time	Measurement time	Parameter	Water level + Depth (M)
27th	16-08-14 2.10 pm	During Weekly Sampling	Water Level	(1)-Meters above national datum
28 th	23-08-14 12.05 pm	During Weekly Sampling	Water Level	(1)-Meters above national datum (2) 11
29 th	30-08-14 1.40 pm	During Weekly Sampling	Water Level	(1)-Meters above national datum (2) 15
30 th	05-09-14 11.15 am	During Weekly Sampling	Water Level	(1)-Meters above national datum (2) 12
31 th	13-09-14 3-00 pm	During Weekly Sampling	Water Level	(1)-Meters above national datum (2) 0 (Gauge was another point/place)

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(3.B) Water Quality Parameters (Laboratory Tests)

Sampling Month	Sampling Week	Date & Time	Depth (m)	As	Al	Fe	Mn	TDS	Algae
7th	30 th	05-09-14 & 11.15	7.5	0	0.269	1	<0.05	24	-

(3.C) River water salinity test at Meghna Bridge spot during high tide

Sampling Month	Sample Location	Date & Time	Tide	Parameter	Concentration (g/kg)
7th	Meghna Bridge	05-09-14 & 11.15 am	During high tide	Salinity	0.02

(3.D) River water Salinity test at four different points between Meghna Bridge and proposed new intake location

Sampling Month	Sampling Week	Sample Location	Date & Time	Measurement time	Concentration (g/kg)
7th	17th	Bishnondi Point	05-09-14	During monthly sampling	0.03
7th	17th	Chaitankanda	05-09-14	During monthly sampling	0.03
7th	17th	Nunertech, Near	05-09-14	During monthly sampling	0.02
7th	17th	Near Meghna	05-09-14	During monthly sampling	0.04

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