

National Water Supply & Drainage Board

Chemical Quality of Water - January 2011

Progress Report on Sampling & Testing

Note:- This Report indicates only the schemes where Chemical Water Quality are unsatisfactory

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Kandy North	Pussella	1	1	Colour= 101, Turbidity=22.10, Treatment Plant		Pussella Oya	
	Matale	1	1	Colour=48, Turbidity= 13.4, Treatment Plant			
	Hadeniya	1	1	Colour=70, Turbidity= 12, Bolagala Service Reservoir		Bore hole	
	Ukuwela	1	1	Colour=58, Turbidity= 12.80, Treatment Plant		Mahaweli River	
	Galagedara	1	1	Colour= 126, Turbidity=34, Treatment Plant		Stream	
	Udatenna	1	1	Colour=79, Turbidity=23.90, Treatment Plant		Streem	Treatment insufficient

RSC- Sabaragamuwa/Uva

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Bandarawela	Bandarawela	10	9	Colour= 32-147, Turbidity= 11-32, Distribution	Need Full treatment	Streem	
	Dodamwatta	1	1	Colour=42, Turbidity= 11, Tap at Distribution	Filteration should improve	Streem	
	Lunuwatta	1	1	Colour=204, Turbidity=35, Tap at Piyasiri Hotel	Need Full treatment	Streem	
	Madawela	1	1	Colour=68,, Turbidity= 12, Tap at S.J.M.Samarakoon Karagahaulpatha junction	Need Full treatment	Streem	

RSC- North Central

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Vavunia	Thiruketheswaram	2	1	Alkalinity = 544, Thiruketheswaram tank outlet, Mannar			
	Vankalai	3	1	Alkalinity=492, Vankalai tank outlet tap. Mannar.			

RSC - North Western

Region	Scheme	No. of Samples	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Kurunagala	Giriulla	4	3	1. Turbidity=14.9, Site Office 2. Turbidity=20.8, Nitrate=0.023, Water Tank 3. Turbidity=21.6, Distribution	Partial treatment is not sufficient for improve the turbidity in Ma Oya		
	Udagama	2	2	1. Colour=93, NH3=0.29, Turbidity=17, Water tank 2 2. Colour=128, Turbidity=24, Distribution	To improve the Chemical & Physical Quality treatment beyond the existing level		
	Galgamuwa	3	3	1. Colour=101, Turbidity=18, NH3=0.52, Nitrate=0.021, Sump 2. Colour=296, Turbidity=62, NH3=0.84, Nitrate=0.028, Fe=1.07, Head tank 3. Colour=186, Turbidity=56, Distribution	Partial treatment is not sufficient for improve the turbidity in Mee oya during rainy season due to dissolved substances in incoming raw water. High turbidity will be affected chlorination efficiency.		
	Wannigama	2	2	1. Colour=106, Turbidity=20, NH3=1.06, Hardness=916, Fe=1.16, Head Tank 2. Colour=128, Turbidity=24, Distribution	Partial treatment is not sufficient for improve the water quality in this Bore hole. But this will be supplied from the Nikaweratiya Scheme after commissioning of the plant		
	Polgahawela	6	6	1. Turbidity=32.9, Fe=1.16, Sump 2. Turbidity=18.9, Water Tank 3. Turbidity=23.43, Fe=1.87, Distribution	Package plant is in design stage. After implementing the Project, water quality can be improved up to the standard level.		
	Gokarella	2	1	Turbidity=10.8, NH3=0.24, Fe=1.55, Over Head Tank	Partial Treatment is not sufficient for improve water quality in Kuda Oya during heavy rainy season.		
	Wariyapola	2	1	1. Colour 172, Turbidity=32, NH3=0.39, Nitrite=0.036, Fe=1.51, Mn=0.6, Over Head tank 2. Colour=61-122, Turbidity=12-29, Distribution	To improve the chemical and Physical Quality treatment. Process should be improved beyond the existing level		

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Puttalam	Puttalam	6	2	1. NH ₃ =0.47, Distribution 2. NH ₃ =0.54, NO ₂ ⁻ = 0.018	Fluoride level is high. Rechecking is necessary to confirm it.	Mee Oya & Bore holes	
	Andigama	2	1	NH ₃ =0.43, NO ₃ ⁻ = 0.016, Fe=1.8	Aeration Process should be started.	Bore holes	
	Anamaduwa	2	1	NH ₃ =0.39, Sump	Aeration should be improved.	Bore holes	
	Dankotuwa	5	2	PO ₄ ³⁻ = 2.30, Distribution 2. NO ₃ ⁻ = 0.013, Mn=1.3, Sump	Increasing of the Phosphate & Nitrate level may be happen due to increasing of the sediments flow during the rainy season. We should check it happens seasonally or continuously by monthly Sampling .	Ma Oya	
	Chillaw	1	1	PO ₄ ³⁻ = 2.75, NO ₂ ⁻ = 0.11, Sump	Increasing of the Phosphate & Nitrate level is to the adding of fertilizers to the payy fields adjacent to the some bore holes. So identification of that bore holes should be needed.	Bore holes	

RSC- Southern

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Galle	Pitigala	4	1	Colour=100, Turbidity= 47.2, Fe=2.2, L H H Tap, Near OIC Office	Informed to OIC	Bore hole	

RSC- East

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Ampara	Inginiyagla	2	2	1. Colour=59, Turbidity= 10, supply water 2. Colour=67, Turbidity=9.83, Hospital Road	Informed to OIC	Inginiyagala tank	
	Kalmunai	14	1	Colour= 180, Turbidity= 19.80, Annamalai Road.	Navithanveli wells are source. It is used for external use by consumer.	Well	It is used only for external use by consumer