

National Water Supply & Drainage Board
Chemical Quality of Water - November 2010
Progress Report on Sampling & Testing

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

RSC - Western South

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Horana/Panadura	Ingiriya	7	1	Colour=70, Turbidity=38, Tap at Samanala Preschool, Maha Ingiriya Junction	Partial Treatment Only. The sampling day is a rainy .		

RSC-Western North

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Gampaha	Meerigama	3	1	Fe=2.2, Man hole, Service Ground tank			

RSC- Central

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Kandy Central	Elpitiya	2	2	1. Fe= 1.02, Colour=87, Treated Water 2. Fe=8.40, Colour=393, Turbidity= 16, First connection, Ambagasthenna Road Thalawakale	Iron removal method is needed		

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	Hadeniya	1	1	Colour= 100, Turbidity= 17.5, Fe=2.18, Treated Water at plant	Treatment Plant Improvements are suggested		
	Matale	1	1	Colour=49, Turbidity= 13.2, Treated water at plant	Treatment Plant Improvements are in progress		
	Udatenna	1	1	Colour=41, Turbidity=8.94, Treated water at plant	Treatment Plant Improvements are suggested		

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	Hali Ela	2	1	Fe= 1.27, Stock tank (Morethota)	Improvement of Treatment process		
	Welimada	1	1	Colour=243, Turbidity= 54, Stock tank	Filtration system should be introduced.		

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
Anuradhapura	Madawachchiya	3	1	Fluoride= 1.50, Tap at site.	Domestic Filters should be used	Bore hole	

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Jaffna	Araly	4	1	EC=4350, Chloride=1406, total Hardness=812, Dug Well 01- Bottom			
	Karainagar	8	2	1. Hardness=808, Sulphate=442, Dugwell 3-Surface 2. Hardness=812, Sulphate=444, Dugwell 3-812, Bottom			
	Vaddukoddai	4	1	1. EC=3630, Total Hardness=756, TDS=2178, Dugwell 02- Bottom			
	Kilinochchi Mini Scheme	2	2	1. Colour=30, Turbidity=19.40, Dugwell, Surface 2. Colour=40, Turbidity=20.99, Dugwell Bottom			

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Vavunia	Vaddukoddai	6	1	Alkalinity = 820, Nitrite=0.88, Out let tap, Vavunia tank			
	Thriukethwswa waram	2	1	Alkalinity=600, Tank outlet tap Mannar.			
	Vankalai	2	1	Alkalinity=596, Vankalai tank outlet tap. Mannar.			
	Mannar	3	1	Alkalinity=442, Mannar tank outlet, Mannar			

RSC - North Western

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Kurunagala	Wannigama	2	2	1. Colour=168, Turbidity=34, NH3=1.23, Alkalinity=464, Fe=1.57, Mn=0.6, Over head tank 2. Colour=81, Turbidity=14, Distribution	Problem will be settled after operation of Nikaweratiya full treatment plant		
	Dambadeniya	2	2	1. Colour=68, Turbidity=12, Fe=1.17, Mn=0.4, Sump 2. Colour=53, Turbidity=18, Distribution	Recommend to iron removal process to this scheme	Bore hole	
	Ogodapola	2	2	1. Colour=276, Turbidity=43, NH3=0.48, NO2=1.3, Water tank 2. Colour=248, Turbidity=44, Distribution	Unsatisfactory water quality is due to the heavy erosive rains. Water quality can not be improved with existing setup facility. It should be improved up to considerable level to overcome the situation		
	Giriulla	4	4	1. Colour=119, Turbidity=21, Sump 2. Colour=142, Turbidity=26, NH3=0.46, Water tank 3. Colour=94-96, Turbidity=17-19, Distribution	Unsatisfactory water quality is due to the heavy erosive rains. Water quality can not be improved with existing lateral system. Recommend full treatment facility		
	Wariyapola	3	3	1. Colour=842, Turbidity=181, Mn=5.8, NH3=1.06, NO2=0.011, Fe=3.5, Tower 2. Colour=83 - 270, Turbidity=18-52, Distribution	This much of colour, turbidity, Fe, NH3 may be due to the inflow of main urban drainage channel of Kurunagala (Booela) to the Wariyapola intake. This situation will create many health problems. Recommend full treatment		
	Galgamuwa	3	3	1. Colour=650, Turbidity=159, Sump 2. Colour=204, Turbidity=38, NH3=0.55, NO2=0.012, PO4=3, Mn=0.7, Over head tank 3. Colour=210, Turbidity=39, NH3=0.58, NO2=0.016, Mn=0.7, Distribution	This is due to the heavy erosive rains. Water quality can not be improved with existing lateral system. Recommend full treatment		
	Nikaweratiya	2	2	1. Colour=203, Turbidity=35, Stand post 2. Colour=64, Turbidity=12, NH3=0.25, Distribution	Construction of Full treatment plant is almost completed. Problem will be settled after commissioning		
	Rambadagalla	2	2	1. Colour=1006, Turbidity=186, NH3=1.8, NO2=16.4, PO4=3.26, Mn=7.34, overhead tank 2. Colour=254, Turbidity=49, Distribution	Unsatisfactory water quality is due to the heavy erosive rains. Water quality can not be improved with existing facility. It should be improved up to considerable level to overcome the situation		
	Dodangaslanda	2	2	1. Colour=195, Turbidity=36, Head work 2. Colour=192, Turbidity=37, Distribution	This problem created after the construction of dug well in the Kuda Oya last year. Surface water cannot be treated with existing facility		

	Kurunagala	8	7	Colour=83-360, Turbidity=36-68, NH3=0.47, Distribution	This indicate the inflow of water into the distribution lines through the leakes.should be properly investigated and do the necessary improvements.		
	Polgahawela	6	6	1. Colour=333, Turbidity=57, Fe=2.13, Mn=0.3, Imbulgasdeniya Water tank 2. Colour=401, Turbidity=75, Site office 3. Colour=311-530, Turbidity=57-66, Distribution	Unsatisfactory water quality is due to the heavy errosive rains. Water quality can not be improved with existing treatment facility. Proposed package plant is planning stage		

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Puttalam	Puttalam	7	2	1. NH3=0.81, sump 2. NH3=0.57, Distribution	Sump should be cleaned.		
	Andigama	2	1	cololur=33, Site office	Need treatment improvement.		
	Anamaduwa	2	2	1. Colour=96, Turbidity=18, sump 2. Colour=46, Turbidity=10, Distribution	Need treatment improvement.		
	Dankotuwa	6	1	Colour=36, Turbidity=10, sump	Sump should be cleaned.		

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Galle	Pitigala	6	2	1. Colour=40, S.tap, Petrol Shed, Fe=1.6, Pelawatta Road 2. Colour=50, Turbidity=9.2, HH.tap, Near Ground Water Reservoir 3. Colour=50, Turbidity=8.8, LHH tap, Near OIC office.	Partial treatment is existed.		

Region	Scheme	No. of Samples Tested	No. of Samples Unsatisfactory	No. of Samples Unsatisfactory Sampling Points with Details	Remedial Measures Suggested	Source	Note
Hambantota	Kataragama	6	6	1. Colour=40, Tap at Kiri Vehera 2. Colour=60, Tap at Maha Dewalaya 3. Colour=120, Turbidity=43.6, S.P. Sellakataragama 4. Colour=40, Indrani niwasa, Wallimathgma 5. Colour=40, S.P. Rajamawatha 6. Colour=210, Turbidity=63.3, Chandra house, Detagamuwa.	Partial treatment is existed. Full treatment is needed.		

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	Narvithanwalli	2	2	1. Colour=600, Trubidity=168, Fe=6.25, pH=6.81, Well - 1 2. Colour=510, Turbidity=127, Fe=6.39, Well 02	Wells are souces for suppling & use this by consumer for exgternal purposes.	Well	