

**North Carolina Clean Water State Revolving Fund (CWSRF) - October 2014 Application Round**  
**Projects Approved for Funding by State Water Infrastructure Authority on Dec. 11, 2014**

Project No.	Applicant Name	Project Name	Engineering Firm	Project Description	Number of New Connections Served	\$ per Connection	County	Tier	Funding Request	Green Project Reserve	Principal Forgiveness	Base CWSRF	Total Project Cost	Points Submitted	Points Verified (Total All Categories)	Project Type	Env. Benefit	System Mgmt.	Financials	Difference in Points Claimed & Verified	Other Considerations/ Staff Notes			
<b>FUNDING SUMMARY</b>									<b>\$62,786,110</b>	<b>\$5,423,176</b>	<b>\$1,487,588</b>	<b>\$55,315,347</b>												
1	Bay River Metropolitan Sewer District	Oriental Sewage Collection System Rehab.	Stroud Engineering	Rehabilitation of 5 pump stations; replacement of 460 l.f. of 8-inch gravity manhole rehabilitation manholes			Pamlico	2	\$745,675		\$372,838	\$372,838	\$756,409	66.21	63.20	20	15	15	13.20		1. SSES documentation does not discuss methodology for determining deficiencies			
2	Elm City, Town of	Replacement of Parker Street Lift Station	AECOM Technical Services	Replacement of existing 150 gpm pump station			Wilson	1	\$229,500		\$114,750	\$114,750	\$229,500	44.36	44.36	25	0	0	19.36					
3	Yadkin Valley Sewer Authority	2015 WWTP Rehabilitation Project	West Consultants	Replacement of existing chlorine gas with UV; a new secondary clarifier; a new office building; rehabilitation of 2,000 lf of effluent main; a mechanical screen; DO controls; rehabilitation of sludge drying beds; installation of a magnetic flow meter			Yadkin	2	\$2,500,000		\$500,000	\$2,000,000	\$2,550,000	48.96	43.96	20	0	10	13.96		1. Applicant used 3 year average for operating ratio calculation but did not provide justification or supporting calculation. 2. Land use plan only covers part of the service area; gave points for significant steps towards adoption. 3. Flood hazard prevention only covers part of the service area.			
4	Taylorsville, Town of	2015 Collection System Rehab Project	West Consultants	Rehabilitation or replacement of approximately 18,000 lf of gravity sewer including CCTV and smoke testing a total of 68,000 lf of sewer			Alexander	2	\$1,085,575		\$500,000	\$585,575	\$1,107,287	44.01	43.47	25	0	5	13.47		1. Calculated incorrect sewer rate			
5	Randleman, City of	WWTP Facility Air Supply Piping & Diffuser	MBD Consulting Engineers	Replacement of existing coarse bubble diffusers with fine bubble diffusers to reduce energy use			Randolph	2	\$515,500	\$515,500			\$525,810	41.90	41.89	25	0	5	11.89					
6	Mount Olive, Town of	Upgrades to Wastewater Spray Irrigation System	AECOM Technical Services	Effluent metering flume; replacement of existing 350 gpm effluent irrigation pumps; replacement of existing drip irrigation system with a spray system; conversion of existing fields from tree growth to grass; modifications to oxidation ditch			Wayne	2	\$2,245,000			\$2,245,000	\$2,245,000	41.00	40.00	15	0	5	20.00		1. Application included more points for financial than max allowable of 20.			
7	Winston-Salem, City of	Power Generation System at Muddy Creek WWTP	Black & Veatch	Installation of a new 1,137 kw combined heat and power system			Forsyth	3	\$4,907,676	\$4,907,676			\$5,005,829	39.10	38.82	20	0	10	8.82		1. Application used project rates instead of current rates.			
8	Taylorsville, Town of	2015 WWTP Rehabilitation Project	West Consultants	Improvements to WWTP clarifiers, blowers, RAS pumps, generator, grinder, screens, office; addition of dewatering facilities			Alexander	2	\$1,500,000			\$1,500,000	\$1,530,000	39.01	38.47	20	0	5	13.47		1. Calculated incorrect sewer rate			
9	Boonville, Town of	Sanitary Sewer Replacement	Municipal Engineering	Replacement of 3,361 lf of gravity sewer			Yadkin	2	\$245,970			\$245,970	\$250,889	47.73	37.73	25	0	0	12.73		1. Asset management plan does not meet requirements for inventory, mapping, condition assessment and CIP 2. Applicant used 5 year financial average for calculating operating ration but did not provide justification.			
10	Brevard, City of	WWTP Rehabilitation	CDM Smith	Rehabilitation of WWTP including conversion of existing RBC system to extended aeration			Transylvania	2	\$8,950,000			\$8,950,000	\$8,950,000	45.60	35.42	20	0	5	10.42		1. No letter provided from DWR to verify WS-IV water supply plan. 2. Included SOC is limited to collection system improvements. 3. Discrepancy in rate calculation.			
11	Shelby, City of	Composting Facility Upgrade/First Broad River	HDR Engineering	Upgrade of WWTP composting facility			Cleveland	2	\$3,947,952			\$3,947,952	\$4,022,952	68.24	33.24	20	0	0	13.24		1. Project does not implement recommendation of basinwide plan. 2. Narrative does not address key areas of asset management plan implementation. 3. OR is less than 1 based upon LGC 108C data.			
12	Boonville, Town of	WWTP Improvements	Municipal Engineering	Modifications to the WWTP including installation of a mechanical screen, replacement of blowers, and resurfacing of steel aeration tanks			Yadkin	2	\$369,030			\$369,030	\$376,411	42.73	32.73	20	0	0	12.73		1. Asset management plan does not meet requirements for inventory, mapping, condition assessment and CIP 2. Applicant used 5 year financial average for calculating operating ration but did not provide justification.			

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13	Granite Falls, Town of	Waste Sludge Storage Tank	The Wooten Company	Installation of an additional 250,000 gallon sludge storage tank			Caldwell	1	\$600,000			\$600,000	\$612,000	32.07	32.07	15	0	10	7.07			
14	Stanly, County of	Airport Rd Corridor Sanitary Sewer Improvements	Chambers Engineering	Expansion of pump station; installation of 12,000 l.f. of 6-inch force main			Stanly	2	\$1,121,043			\$1,121,043	\$1,121,043	36.70	26.71	5	0	10	11.71	1. Documentation provided for pump station age does not clearly indicate the infrastructure is 20 years old. 2. OR calculated based upon provided LGC 108C information is less than 1.		
15	Williamston, Town of	Annex Area A Sanitary Sewer Improvements	Rivers & Associates	Installation of approximately 17,000 lf of gravity sewer, a pump station, and 3,500 lf of force main to serve 105 annexed customers	105	\$40,289	Martin	1	\$4,230,300			\$4,230,300	\$4,230,300	49.64	29.78	0	0	10	19.78	1. No documentation provided that project will serve failing septic tanks. Project is to serve recently annexed area. 2. Used incorrect MHI data in financial calculation		
16	Eden, City of	Junction & Bridge St Pump Station Rehas.	WK Dickson	Rehabilitation of existing pump stations including pumps, motors, and electrical to address capacity limitations			Rockingham	1	\$3,000,000			\$3,000,000	\$3,673,610	91.75	33.75	10	0	10	13.75	1. Project describes improvements to address capacity issues and never clearly indicates rehabilitation will be like for like. 2. Project purpose is to correct noncompliance so not eligible for basinwide points 3. No direct connection between project an turbidity impairment 4. Does not meet regionalization criteria since Town has always owned and operated all systems	Staff Notes: Applicant also applied for WW HUC grant funds for this project.	
17	Eden, City of	Meadow Greens & Covenant Branch Force Main	WK Dickson	Interconnection of force main from two existing pump station to a larger existing force main to convey peak flows and eliminate SSOs			Rockingham	1	\$560,000			Partial funding approved from Wastewater Reserve High Unit Cost Grant funds	\$570,963	91.75	28.75	5	0	10	13.75	1. Project is to increase pump capacity and not a rehabilitation with no increase 2. Project does not replace any existing infrastructure 3. Project purpose is to correct noncompliance so not eligible for basinwide points 4. No direct connection between project an turbidity impairment 5. Does not meet regionalization criteria since Town has always owned and operated all systems	Staff Notes: Applicant also applied for WW HUC grant funds for this project.	
18	Winterville, Town of	New Regional Pump Station & Sewer Rehab	The Wooten Company	Replacement of existing pump station to increase hydraulic capacity; replacement of 3,700 lf of existing terra cotta gravity sewer			Pitt	2	\$2,127,020			\$2,127,020	\$2,177,210	22.00	22.00	10	0	5	7.00			
19	Johnston, County of	2015 Sewer Rehabilitation	-	Rehabilitation of approximately 3,000 lf of gravity sewer; flow isolation study and cctv testing of 18,000 lf of sewer			Johnston	3	\$828,764			\$828,764	\$828,764	35.62	20.62	5	0	5	10.62	1. Narrative does not indicate that rehabilitation and replacement work will be like sized		
20	Morehead City, Town of	2014 West End Pump Station & Force Main	McDavid & Associates	Construction of a new 700 gpm pump station and 26,500 lf of force main to serve exiting flows rerouted from other pump station and to provide for future development			Carteret	3	\$2,500,000			\$2,500,000	\$2,550,000	21.56	16.56	0	0	5	11.56	1. Provided no points for expansion since this project in new infrastructure and not an expansion of existing		
21	Albemarle, City of	2014 Leachate System Upgrades	Hodges, Harbin, Newberry and Tribble	Construction of a new leachate pump station; construction of 20,000 l.f. of force main to the Albemarle WWTP			Stanly	2	\$2,435,450			\$2,435,450	\$2,435,450	33.20	5.20	0	0	0	5.20	1. No points given because project does not match any project type associated with priority system. 2. No rate information was provided for the solid waste program which is funding the project, therefore financial points are for poverty rate only.	Staff Notes: Project provides a new sewer line to serve the landfill which currently trucks leachate to the WWTP.	
SEL 1*	Lake Lure, Town of	WWTP Upgrade	Brown Consultants	Installation of new aeration, chemical feed lines, and sludge wasting lines			Rutherford	1	\$225,050			\$225,050	\$225,050	27.93	23.44	15	0	0	8.44	1. No points given for facility age because there was no documentation verifying WWTP age submitted.		
* Applicant applied for State Emergency Loan (SEL) and CWSRF funding for this project; project ineligible for SEL									Subtotal CWSRF Funding Request: \$44,869,505			Subtotal Base CWSRF Funding Approved for CWSRF Applications (*): \$37,398,742	(*) Does not include Green Project Reserve and Principal Forgiveness Approved Projects									

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** The following applicants requested Wastewater High Unit Cost (WW HUC) grant funds but those funds were not available for these projects; the State Water Infrastructure Authority approved offering CWSRF loan funds to these applicants to provide an alternate means of funding.																					
WW HUC 4	Stantonsburg, Town of	Sanitary Sewer Replacement	Municipal Engineering	Rehabilitation or replacement of 2,260 lf of terra cotta gravity sewer; replacement of existing brick manholes			Wilson	1	\$674,975			\$674,975	\$674,975	**	**	**	**	**	**		1. SSES does not indicate entire sewer shed was evaluated. Its not clear that proposed work was included in previous SSES. 2. No indication that SSOs reached surface water. No direct connection between project and impairment. 3. Project does not benefit special water classification. 4. Provided documentation indicates that existing land use plan is not water quality based.
WW HUC 5	Fremont, Town of	Wastewater System Improvements Sewer	Municipal Engineering	Sewer rehabilitation to reduce I/I and the amount of sewage sent to the City of Goldsboro for treatment consisting of the replacement of 3,000 l.f. of 8-inch VCP with new 8-inch PVC or rehabilitation with CIPP and manhole lining or replacement.			Wayne	2	\$611,740			\$611,740	\$611,740	**	**	**	**	**	**		1. Documentation for SSES does not clearly demonstrate the scope of the study, the methodology for determining condition, and mapping from the study was not provided.
WW HUC 7	Elm City, Town of	WWTP Improvement Project	McGill Associates	Construction of a new 0.24 MGD WWTP and modification of existing lagoons to serve as flow equalization and storage			Wilson	1	\$2,902,000			\$2,902,000	\$2,945,530	**	**	**	**	**	**		1. No Basinwide points given due to non compliance 2. Added operating ratio points since they were claimed and documented in Parker Street LS application
WW HUC 9	Franklinton, Town of	Wastewater System Rehab Phase III	Municipal Engineering	Upgrade of pump station capacity and upsizing of existing force main			Franklin	2	\$543,020			\$543,020	\$551,165	**	**	**	**	**	**		
WW HUC 10	Richmond, County of	Cordova Sewer Rehabilitation	Engineering Services	Replacement of approximately 17,000 lf of gravity sewer and manholes			Richmond	1	\$2,347,315			\$2,347,315	\$2,347,315	**	**	**	**	**	**		
WW HUC 11	Ramseur, Town of	Wastewater System Improvements	The Wooten Company	Improvements to the main pump station; replacement of 500 lf of force main; repairs and lining of approximately 1,500 lf of gravity sewer			Randolph	2	\$843,900			\$843,900	\$856,559	**	**	**	**	**	**		1. SSES only covers part of sewer shed 2. Application used incorrect MHI data in financial calculation
WW HUC 12	Clarkton, Town of	Equalization Basin Project	Withers and Ravenel	Conversion of old lagoon to provide additional flow equalization storage to new treatment facility			Bladen	1	\$421,000			\$421,000	\$421,000	**	**	**	**	**	**		1. Financial points were not provided on rating sheet and no total points were provided. 2. Project does not replace the lagoon but repurposes without any substantial rehabilitation. 3. Gave regionalization points since additional information was submitted for collection system project with documentation.
WW HUC 13	Bay River Metropolitan Sewer Dist.	Oriental Lagoons Rehab & Repair	Stroud Engineering	Restoration and modification of existing lagoon embankments to increase depth to provide sufficient freeboard and to allow for more complete solids separation; installation of a new aeration system to enhance BOD removal			Pamlico	2	\$1,379,500			\$1,379,500	\$1,379,500	**	**	**	**	**	**		1. No direct benefit to impaired stream 2. No narrative for asset management plan 3. Operating ratio utilizing current financials is less than 1
WW HUC 15	Yadkin Valley Sewer Authority	2015 WWTP Rehabilitation Project	West Consultants	Replacement of existing chlorine gas with UV; a new secondary clarifier; a new office building; rehabilitation of 2,000 lf of effluent main; a mechanical screen; DO controls; rehabilitation of sludge drying beds; installation of a magnetic flow meter			Yadkin	2	\$2,500,000			\$2,500,000	\$2,500,000	**	**	**	**	**	**		1. Land use plan only covers part of the service area; gave points for significant steps towards adoption 2. Flood hazard prevention only covers part of the service area

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WW HUC 17	Louisburg, Town of	WWTP Improvements	Municipal Engineering	Replacement of existing nutrient removal process controls; new SCADA system to control the treatment process			Franklin	2	\$350,000			\$350,000	\$350,000	**	**	**	**	**	**	1. Rate information provided did not include water rates 2. Project is not clearly included in CIP 3. No narrative provided for asset management 4. No narrative for how flood hazard ordinance exceeds state standards	
WW HUC 19	Hookerton, Town of	WWTP Improvements	Rivers & Associates	Abandonment of existing WWTP; new pump station and 23,700 lf of force main to send flows to Snow Hill for treatment			Greene	1	\$2,922,200			\$2,922,200	\$2,922,200	**	**	**	**	**	**	1. OR calculated using LGC 108C data is less than 1. 2. Narrative does not discuss water-quality based measures included in land use plan.	
WW HUC 20	Hamlet, City of	Walls Trlr Prk Pump Sta/Force Main Replcmnt	The Wooten Company	Replacement of 4,500 lf of force main; new engine driven standby pump			Richmond	1	\$687,500			\$687,500	\$697,812	**	**	**	**	**	**	1. Errors in rate calculations 2.No impairment points since the noted impairment is for mercury due to atmospheric desposition 3. Work in Richmond County does not directly implement costal habital protection plan 4. Does not own other systems	
WW HUC 22	Dublin, Town of	Hwy 410 Pump Station Replacement Project	Withers and Ravenel	Replacement and expansion of lift station built in 1978			Bladen	1	\$311,000			\$311,000	\$311,000	**	**	**	**	**	**	1. Financial points were not provided on rating sheet and no total points were provided 2. Project expands current capacity and is not considered a replacement project	
WW HUC 23	Ranlo, Town of	West Pump Station Removal Project	Denver Toler	Replacement of existing pump station with approximately 800 lf of gravity sewer to provide additional hydraulic capacity			Gaston	2	\$314,855			\$314,855	\$314,855	**	**	**	**	**	**	1. No direct connection between project and stated mercury impairment. 2. Provided CIP does not include proposed project.	
WW HUC 24	Andrews, Town of	WWTP Rehabilitation	McGill Associates	Rehabilitation of trickling filter including replacement of filter media and refurbishment of the rotating mechanism and stationary column; improvements to chlorination/dechlorination system; replacement of exisiting generator			Cherokee	2	\$1,107,600			\$1,107,600	\$1,124,214	**	**	**	**	**	**	1. Rates calculated were incorrect and inconsistent with Andrews TAG application 2. Project does not implement basinwide strategy or recommendation 3. No direct benefit to turbidity impairment 4. Incorrect MHI data used	
					<b>Subtotal WW HUC Funding Request:</b>				<b>\$17,916,605</b>			<b>Subtotal Base CWSRF Funding Approved for WW HUC Applications:</b>		<b>\$17,916,605</b>							
											<b>GRAND TOTAL CWSRF FUNDING APPROVED for OCTOBER 2014 APPLICATION ROUND:</b>		<b>\$62,226,110</b>								