

**APPENDIX F
FORM OF UPDATES REGARDING GREEN PROJECTS AND GREEN BONDS**

Amount of proceeds of the Series 2016 Bonds at the time of issuance:

\$ 35,055,849.09

<u>Project Name</u>	<u>Project Description</u>	<u>Amount of Proceeds of Series 2016 Bonds That Have Been Spent as of December 31, 2018 for Fiscal Year 2018</u>	<u>Total Amount of Proceeds of Series 2016 Bonds That Have Been Spent through December 31, 2018</u>	<u>Percentage of Proceeds of Series 2016 Bonds That Have Been Spent as of December 31, 2018 for Fiscal Year 2018</u>	<u>Percentage of Total Proceeds of Series 2016 Bonds That Have Been Spent through December 31, 2018</u>
Sewer Replacement	This project consists of constructing and installing replacement sewers and repairing and rehabilitation of existing sewers within the City of Cleveland.	\$ 2,041,984.25	\$ 6,383,601.14	5.82%	18.21%
East 75th Street	This project consists of installing approximately 300 feet of combined sewer on East 75 Street, under existing bridge, and approximately 120 feet of sewer on East 75 Street between Woodland Avenue and Grand Avenue. The construction methods for this project include open cut excavation and boring/jacking. The existing combined sewer on East 75 Street was built in 1903.	\$ 1,533,355.13	\$ 1,533,355.13	4.37%	4.37%
Program Management Team	This project consists of securing a professional firm to provide capital improvements program management for a five-year period to meet WPC goals and objectives including specific levels of service for sewer reliability, functionality and sustainable operations.	\$ 1,315,216.31	\$ 2,160,148.13	3.75%	6.16%
East 103rd Street	This project consists of replacing approximately 3,500 feet of sanitary and storm main sewers in the area; on East 103 St between Elk Ave and on Colonial Ave, and Colonial Ave between East 103 St and East 105 St. The existing sewers were built in 1910. The sewers are structurally deteriorated. This causes basement and street flooding.	\$ 1,091,751.99	\$ 1,091,751.99	3.11%	3.11%
Pavement and Drainage Improvements	Phase I of this project consists of removing existing concrete driveway, installing new concrete pavement, installing safety railing, demolishing existing concrete block building, installing covered area for cylinder cages, and removing and installing new windows at the Division of Water Pollution Control's (WPC) facility, 12302 Kirby Ave.	\$ 1,000,000.00	\$ 1,000,000.00	2.85%	2.85%
Thrush Avenue	This project consists of replacing the combined main sewer on Thrush Avenue between West 117th Street and Bosworth Road in Ward 11.	\$ 880,414.29	\$ 1,238,794.48	2.51%	3.53%
West 123rd Street	This project consists of replacing approximately 1,500 feet of combined main sewer on West 123 Street between Lorain Avenue and Triskett Road. The existing sewer was built in 1926. The sewers are structurally deteriorated. This causes basement and street flooding.	\$ 773,748.82	\$ 773,748.82	2.21%	2.21%
Sewer Lining	This project consists of rehabilitating and relining sewers at various locations within the City of Cleveland.	\$ 659,029.10	\$ 3,225,468.05	1.88%	9.20%
Elgin Avenue	This project consists of replacing approximately 1,800 feet of sanitary and storm main sewers on Elgin Avenue between East 105 Street and Parkwood Drive. The existing sewers were built in 1920. The sewers are structurally deteriorated. This causes basement and street flooding.	\$ 641,688.75	\$ 641,688.75	1.83%	1.83%
Stormwater - Catch Basins and Manholes	This project consists of constructing and repairing catch basins and manholes at various locations within the City of Cleveland.	\$ 279,683.13	\$ 2,599,868.00	0.80%	7.42%
Sewer Connections	This project consists of rehabilitating and/or repairing sewer service connections at various locations within the City of Cleveland.	\$ 253,200.44	\$ 2,108,508.39	0.72%	6.01%
West 83rd Street	This project consists of replacing approximately 800 feet of No. 2 brick combined main sewer on West 83 Street between Detroit Avenue and Lake Avenue. The existing sewer is built in 1906. The sewers are structurally deteriorated, which causes basement and street flooding.	\$ 151,167.38	\$ 515,602.67	0.43%	1.47%
East 85th Street	This project consists of relocating the exiting Spring Brook Culvert. The project is located in Ward 5 in the area bordered by East 85 Street, Crawford Road, Hough Avenue, East 105 Street and Chester Avenue, which is a residential area. The existing culverted storm sewer (Spring Brook Culvert) runs under properties in this area and discharges into Doan Brook. The sewer was built in the early 1900's. The sewer is structurally deteriorated.	\$ 103,785.22	\$ 225,501.87	0.30%	0.64%
Vine Court	This project consists of the installation of 12' sewer with catch basins, services connections, and manholes for approximately 800 feet on Vine Court from West 32nd Street to West 29th Street.	\$ 46,722.63	\$ 46,722.63	0.13%	0.13%
Scranton Road	This project consists of reconstruction and rehabilitation of approximately 1.4 miles on both Scranton Road and Carter Road between Columbus Road and Fairfield Avenue. Work includes the reconstruction of existing pavement with concrete pavement, curb replacement, driveway repair, catch basins and roadside drainage features, pavement markings, and making curb ramps ADA compliant throughout the project length.	\$ 32,091.18	\$ 199,684.64	0.09%	0.57%

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Fulton Road/West 28th Street	This project consists of sewer cleaning and CCTV inspections on Fulton Road/West 28th Street from Clark Avenue to Detroit Avenue.	\$ 26,120.73	\$ 39,209.34	0.07%	0.11%
Pearl Road	This project consists of rehabilitation of 2.95 miles of Pearl Road from Brookpark Road to the Interstate 71 northbound ramp. The project also includes streetscaping from State Road to Wildlife Way, new sidewalk, new curb, drive aprons, new storm sewer, new water main, drainage structures, several new traffic control signs and pavement markings, underground lighting conduit and related items.	\$ 1,046.31	\$ 217,002.41	0.00%	0.62%
Bryant Avenue	This project consists of replacing approximately 2,500 feet of sanitary main sewer and storm main sewer on Bryant Avenue between East 105 Street and Parkwood Drive within the City of Cleveland.	\$ -	\$ 1,029,986.06	0.00%	2.94%
West 48th Street	This project consists of installing approximately 1,700 feet of storm relief sewer and replacing approximately 300 feet of deteriorated sewers on West 48 Street between Park Drive and Memphis Avenue. The existing combined sewer was built in 1916. The sewer is undersized and structurally deteriorated, which causes basement flooding on West 48 Street.	\$ -	\$ 841,694.41	0.00%	2.40%
Rockwell Avenue Sewer	This project consists of replacing approximately 962 LF of combined sewer on Rockwell Avenue between East 13th Street and East 17th Street within the City of Cleveland.	\$ -	\$ 796,705.07	0.00%	2.27%
East 150th Street	This project consists of replacing approximately 1,640 feet of 9" sanitary with a 15 inch sanitary sewer on East 150 Street between St Clair Avenue and Aspinwall Avenue. The existing sewers were built in 1906. The sewers are structurally deteriorated, which causes basement and street flooding.	\$ -	\$ 665,925.30	0.00%	1.90%
Garage Renovations	This project consists of demolition of existing conditions, exhaust fans, radiant heaters, gas detection system, unit heaters, temperature controls and electrical system installation, and windows, shop drawings, samples, warranties, guarantees, as-built drawings, clean up and all labor and materials and associated construction requirements, i.e., licenses, bonding, insurance, if applicable as it relates to the maintenance garage ventilation and the replacement of windows.	\$ -	\$ 541,786.94	0.00%	1.55%
West 134th Street	This project consists of installing approximately 1,260 feet of storm relief sewer on West 134 Street, between San Diego Avenue and West Avenue within the City of Cleveland.	\$ -	\$ 497,904.15	0.00%	1.42%
Rocky River Drive	This project consists of installing approximately 1,200 feet of sanitary and 1,200 feet of storm sewers on Rocky River Drive, between Puritas Avenue and Laverne Avenue; and approximately 250 feet of sanitary and 250 feet of storm sewers on Rocky River Drive, between Sedalia Avenue and Melgrave Avenue. The existing sewers were built in 1926. This causes property flooding on Rocky River Drive.	\$ -	\$ 212,609.40	0.00%	0.61%
East 152nd Street	This project consists of construction and renovations of East 152nd Street between Woodworth Avenue and Waterloo Road.	\$ -	\$ 136,060.83	0.00%	0.39%
Madison Avenue	This project consists of capital improvements of Madison Avenue between West 117th Street and West Boulevard.	\$ -	\$ 59,487.50	0.00%	0.17%
Grand Total		\$ 10,831,005.66	\$ 28,782,816.10	30.90%	82.11%