

**Virginia American Water Company
Alexandria District Capital Plan
July 2017 to April 2020**

<u>Recurring Projects</u>	<u>Apr to Dec 2017</u>	<u>Jan to June 2018</u>	<u>July to Dec 2018</u>	<u>Full Year 2019</u>	<u>Jan to Apr 2020</u>	<u>Rate Case Total</u>
Developer Funded Projects (Company Spend)	\$ 510,879	\$ 6,579	\$ 632,278	\$ 750,000	\$ 293,859	\$ 2,193,595
Mains - New	468	1,150	-	1,185	-	2,802
Mains - Replaced / Restored	3,403,144	2,068,997	2,593,865	5,000,000	835,937	13,901,943
Mains - Unscheduled	1,367,324	687,998	905,954	1,700,000	475,551	5,136,827
Mains - Relocated	137,953	52,810	456,672	524,766	22,805	1,195,006
Hydrants, Valves, and Manholes - New	94,738	(41,639)	28,770	100,000	20,291	202,160
Hydrants, Valves, and Manholes - Replaced	174,266	169,515	147,311	3,600,000	114,742	4,205,834
Services and Laterals - New	312,265	115,903	81,705	296,000	80,546	886,420
Services and Laterals - Replaced	219,255	132,476	48,473	180,000	53,354	633,558
Meters - New	20,126	5,728	15,069	17,933	5,517	64,372
Meters - Replaced	186,680	142,442	123,647	390,750	91,200	934,719
ITS Equipment and Systems	23,962	38,046	143,768	53,624	-	259,400
SCADA Equipment and Systems	(4,990)	-	-	240,000	-	235,010
Security Equipment and Systems	76,325	56,055	11,169	103,376	32,763	279,688
Offices and Operations Centers	137,790	179,120	82,255	272,351	25,862	697,378
Vehicles	316,823	(43,814)	-	252,000	-	525,009
Tools and Equipment	257,290	3,080	-	16,499	115,647	392,517
Process Plant Facilities and Equipment	377,661	15,592	400	742,516	13,316	1,149,486
Capitalized Tank Rehabilitation / Painting	-	-	-	-	-	-
Engineering Studies	143,529	54,337	67,946	125,952	35,825	427,589
Total	\$ 7,755,487	\$ 3,644,377	\$ 5,339,282	\$ 14,366,952	\$ 2,217,215	\$ 33,323,313
Technology & Innovation Projects	489,220	257,840	17,802	17,802	17,802	800,466
Potomac Yards Improvements	21,922	75,379	-	2,500,000	-	2,597,300
Eisenhower Avenue Improvements	284,156	1,490,779	374,392	-	-	2,149,327
Total	\$ 306,078	\$ 1,566,157	\$ 374,392	\$ 2,500,000	\$ -	\$ 4,746,627
Total Gross Expenditures on Construction	\$ 8,550,786	\$ 5,468,374	\$ 5,731,476	\$ 16,884,754	\$ 2,235,017	\$ 38,870,407
Cost of Removal	-	-	391,059	830,723	199,575	1,421,358
Total Gross Expenditures	\$ 8,550,786	\$ 5,468,374	\$ 6,122,535	\$ 17,715,478	\$ 2,434,592	\$ 40,291,765

Virginia American Water Company
Alexandria District Capital Plan
Infrastructure Replacement (WWISC) - 2017/2018

Street	Length (Ft)	Existing Size (In)	Existing Material & Decade	Diameter Proposed (In)	Proposed Material	VAWC Estimate (1)
Vernon St	210	2	Cast Iron, 1941	6"	Ductile Iron	\$60,000
E. Chapman ST	750	2	Cast Iron, 1950's	4" & 6"	Ductile Iron	\$108,000
Chalfonte Drive (900 Block)	300	2	Cast Iron, 1930's	8	Ductile Iron	\$105,000
Eldon Drive (900 Block)	300	2	Cast Iron, 1930's	8	Ductile Iron	\$105,000
Cambridge Road	1,100	2" & 6"	Cast Iron, 1930's	8	Ductile Iron	\$385,000
Vassar Road	700	2	Cast Iron, 1940's	6	Ductile Iron	\$245,000
Argyle Drive (2900 Block & 400 Block)	1,400	6	Cast Iron & Transite, 1950 & 1970's	6	Ductile Iron	\$469,000
Ramsey ST (600-700 Block)	400	2	Cast Iron, 1930's	6	Ductile Iron	\$140,000
Burke Ave (2400 Block)	550	2	Cast Iron, 1920's	6	Ductile Iron	\$192,500
Adams Ave	1,200	6	Cast Iron, 1940's	8	Ductile Iron	\$420,000
Newton ST	500	6	Cast Iron, 1930's	8	Ductile Iron	\$175,000
Ramsey ST (1000 Block)	220	2	Cast Iron, 1930's	6	Ductile Iron	\$77,000
Wolfe ST	1,800	4	Cast Iron, 1880 - 1890	8	Ductile Iron	\$864,000
Monticello Blvd	2,600	6"	Transite, 1940 & 1950's	8	Ductile Iron	\$710,000
Underhill Place	670	6	Transite, 1950's	6" & 4"	Ductile Iron	\$185,000
Richmond Lane	380	2	Cast Iron, 1950's	6	Ductile Iron	\$110,000
Westminster Place	241	2	Cast Iron, 1950's	6	Ductile Iron	\$62,000
Fayette ST	450	6	Cast Iron, 1950's	6	Ductile Iron	\$125,854
Moody Ct / Benning Ct	420	2	Cast Iron, 1950's	4	Ductile Iron	\$117,600
Townes At Cameron Parke (Phase 1)	860	8	Ductile Iron, 1990's	8	Ductile Iron	\$314,760
Eisenhower Ave Interconnect	1,000	none		12" & 14"	Ductile Iron/HDPE	\$1,936,000
Dartmouth Road	550	2	Cast Iron, 1950's	8	Ductile Iron	\$165,000
South French St	890	2" & 6"	Cast Iron, 1950's	8" & 4"	Ductile Iron	\$267,000
Taney Ave	2,000	8	Transite, 1950's	12"	Ductile Iron	\$666,000
Freedmen Cemetery	800	none	need to abandon 800'-6" Cast iron	12"	Ductile Iron & HDPE	\$340,000
Townes At Cameron Parke (Phase 2)	2,630	8	Ductile Iron, 1990's	8	Ductile Iron	\$920,500
Total Estimated Expenditures						<u>\$9,265,214</u>

(1) - The Capital Plan incorporates funding for the specific projects above in "Mains - Replaced / Restored" with the exception of the "Eisenhower Ave Project" which is listed in the Capital Plan under Investment Projects.
Detail for Capital Plan lines- "Mains - Unscheduled", "Hydrants, Valves, Manholes - Replaced", and "Services and Laterals - Replaced" are not shown above.

Virginia American Water Company
 Alexandria District Capital Plan
 Infrastructure Replacement (WWISC) - 2019

Street	Length (Ft)	Existing Size (In)	Existing Material & Decade	Diameter Proposed (In)	Proposed Material	VAWC Estimate (1)
Prince St	1,600	6"	Cast Iron, 1851	8"	Ductile Iron	\$800,000
Walnut St	880	4"	Cast Iron, 1913	8"	Ductile Iron	\$264,000
South Ingram Street	1,175	6"	Cast Iron, 1950's	8"	Ductile Iron	\$391,275
Underwood Place	440	2" & 6"	Cast Iron, 1950's	4" & 6"	Ductile Iron	\$132,000
Utica Ave & Hudson St	990	6"	Cast Iron, 1950's	8"	Ductile Iron	\$329,670
South Gordon St	1,165	6"	Cast Iron, 1950's	8"	Ductile Iron	\$387,945
Garden Dr & Usher Ave	1,345	6"	Cast Iron, 1950's	8"	Ductile Iron	\$447,885
North Donelson St	755	6"	Cast Iron, 1940's	8"	Ductile Iron	\$226,500
N. Floyd St	690	2"	Cast Iron, 1950's	8"	Ductile Iron	\$229,770
Uline Ave & N. Furman St	1,285	6"	Cast Iron, 1950's	8"	Ductile Iron	\$385,500
N. Gladden St & N. Grayson St	1,095	6"	Cast Iron, 1950's	8"	Ductile Iron	\$328,500
N. Early St & Taft Ave	1,340	6" & 8"	Cast Iron, 1940's	8"	Ductile Iron	\$446,220
N. Howard St	1,155	6"	Cast Iron, 1950's	8"	Ductile Iron	\$384,615
N. Iverson St	655	6"	Cast Iron, 1950's	8" & 6"	Ductile Iron	\$196,500
N. Imboden St	770	8"	Cast Iron, 1950's	8"	Ductile Iron	\$231,000
Raleigh Ave	1,010	6"	Cast Iron, 1950's	8"	Ductile Iron	\$303,000
Winsor Ave, Custis Ave (PYD pressure zone)	4,800	n/a	n/a	16	Ductile Iron	\$2,500,000
Total Estimated Expenditures						\$7,984,380

(1) - The Capital Plan incorporates funding for the specific projects above in "Mains - Replaced / Restored" with the exception of the "Winsor Ave, Custis Ave project" which is listed in the Capital Plan under Investment Projects "Potomac Yard Improvements". Detail for Capital Plan lines- "Mains - Unscheduled", "Hydrants, Valves, Manholes - Replaced", and "Services and Laterals - Replaced" are not shown above.

Note: The Planned expenditures for the projects above are above the planned funding and this allows flexibility to perform additional projects when project costs are favorable and provides flexibility to complete an additional project if another is delayed.

Virginia American Water Company
Investment in Process Plant and Equipment

<u>Year</u>	<u>Description</u>	<u>Amount</u>
2017	Meter Shop Upgrades	\$ 315,000
2017	Replace Emergency Lighting and electrical	55,000
2017	Electrical - Grounding and Bonding	8,000
		<u>\$ 378,000</u>
2019	Duke St Pump Station (Pumps/Electric Panel Replacement)	\$ 250,000
2019	Braddock Rd Pump Station (Pumps/Electric Panel Replacement)	250,000
2019	Payne St Tank Fence	30,000
2019	St. Elmo Tank Fence	50,000
2019	Windsor Prv Replacement	150,000
		<u>\$ 730,000</u>
	Total Investment in Alexandria District Process Plant & Equipment	<u>\$ 1,108,000</u>