



Cuyahoga County
Together We Thrive

2019 Annual Report

Prepared for the: City of Richmond Heights



By the: **Department of Public Works**





Cuyahoga County
Together We Thrive

Department of Public Works

March 18, 2020

The Honorable David H. Roche
City of Richmond Heights
26789 Highland Road
Richmond Heights, Ohio 44143

Dear Mayor Roche,

As Director of Public Works, I am pleased to submit the 2019 Annual Report for the City of Richmond Heights. Our work within the communities focuses on addressing the infrastructure needs of the sewer collection system, as well as meeting Ohio EPA goals. Our goal is to provide a high level of service in a cost-effective manner by striving to improve our efficiency throughout the County. The Department of Public Works has successfully consolidated our Sanitary Engineering, Road & Bridge and Fleet Management operations into one centralized Harvard Avenue Maintenance Yard in Newburgh Heights. The newly renovated facility is home to nearly 180 staff members.

This report is a detailed overview of the work completed within your municipality in the past year and is organized as follows:

- Overview
- Sewer Collection System Jet Cleaning and Television Inspection Summaries
- Plan Approvals Summary
- Service Program Summary
- Community Operating and Capital Expenses

The County is now emailing annual reports, and the report as well as a detailed service map is also available on our website at:

<http://publicworks.cuyahogacounty.us/en-US/Sewer-Maintenance-Services.aspx>

New Rules and Regulations and Uniform Standards and Details have been issued by the County and are also available on our web site:

<http://publicworks.cuyahogacounty.us/en-US/SanitaryDrawings-Standards.aspx>

<http://publicworks.cuyahogacounty.us/en-US/Sanitary-Design-Construction-Drawings.aspx>

My staff is available to meet with you at your convenience should you wish to discuss this report or any of the services that our department provides. On behalf of the entire Cuyahoga County Department of Public Works, we are pleased and grateful for the opportunity to be of service to you and your community.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Michael W. Dever".

Michael W. Dever, MPA
Director of Public Works

Cc: (with attachments)

Don Kerniskey, Service Director
Lee Courtney, City Engineer





The Power of Consolidation

2501 Harvard Avenue – Newburgh Heights

Sanitary Engineering, Road & Bridge & Fleet Management have consolidated to one location



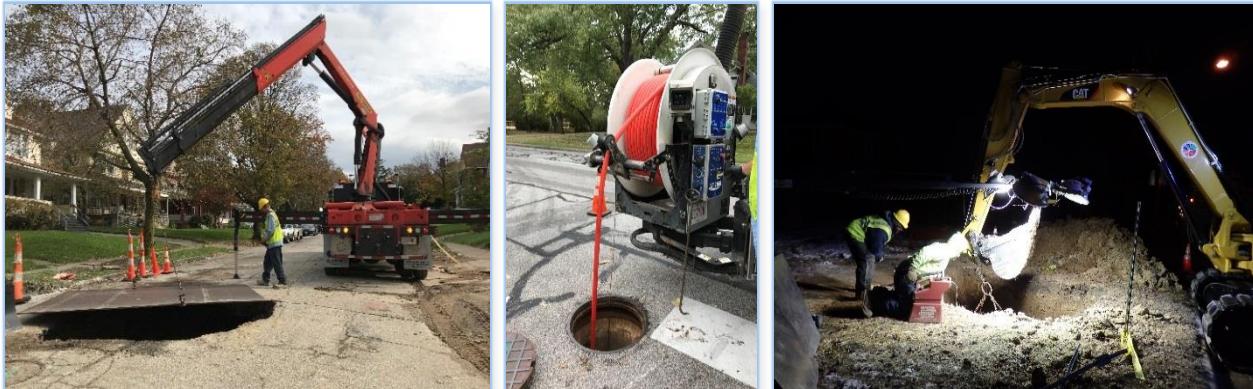
The successful consolidation of all staff previously located at the Canal, Brookpark and York Road facilities to the centralized Harvard Avenue Maintenance Yard is now complete. The newly renovated facility is home to approximately 180 staff members.

- ADA-compliant design for all Office, Conference , and Training Room areas
- Conference and Training Rooms for up to 200 visitors
- Fleet Maintenance Area features: 9 static lifts and 3 mobile lifts
- Vehicle fueling areas for both Diesel and Gasoline
- Interior Vehicle Wash Bay
- LED Lighting for Interior Office, Garage, Exterior Parking Lot and Site Lighting
- Materials Storage Yard
- Dispatch Area
- Permits Area



SANITARY FLEET FACTS

THE POWER OF REGIONALISM



Current vehicles & equipment	Quantity
House Trucks	12
Specialized Plate Truck & specialized vehicles for catch basin repair	7
Combination Jet-Vac & Straight Jet Trucks	12
TV Camera Trucks	7
Backhoes, Mini Excavators & Rubber Wheel Loader	8
Class 5 Dump Trucks	3
Construction trucks	7
1 ton trucks for pump station service	5
43,000 to 53,000 GVWR single-axle dump trucks	6
58,000 to 60,000 GVRW tandem axle dump trucks	9
Class 550 with crane for pump station service	2
20-25 ton trailers	10
Small Trailers	15



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OVERVIEW

Established in 1919, the office of the Cuyahoga County Sanitary Engineer was created to provide administrative authority in matters of wastewater, storm water, and water supply management. In 2012, the Sanitary Engineering Division (formerly CCSE) became a part of the Cuyahoga County Department of Public Works (CCDPW), and now operates under County Executive Armond Budish.

The Sanitary Division's focus is on the maintenance and repair of aging sewer lines, sewer system needs assessment, engineering feasibility studies, and other infrastructure-related issues. These areas all have a direct impact on commercial and residential development, job creation, and expanding the tax base in the communities served by the Department of Public Works. Furthermore, the Sanitary Division is a major source of technical information for communities (mayors, municipal engineers, and service directors), which provides them with guidance for making infrastructure decisions within their community. The Sanitary Division has considerable experience in the maintenance, repair, and rehabilitation of sanitary and storm sewer systems, as well as significant expertise with respect to the operation and maintenance of pump stations and wastewater treatment plants.

The Sanitary Engineering Division of Public Works currently operates in 38 communities by agreement. Pursuant to such agreements, the Sanitary Division maintains more than 1,500 miles of sanitary sewers and 1,100 miles of storm sewers, operates 63 sewage-pumping stations, and maintains two wastewater treatment plants. Working in cooperation with the Ohio Environmental Protection Agency (Ohio EPA), the Northeast Ohio Regional Sewer District (NEORSD), the Cuyahoga County Board of Health (CCBH), and the various communities, the Sanitary Division works to maintain water quality. This is done through the construction of new sanitary sewers, maintenance of existing sewer systems, and the investigation and remediation of illicit discharges (sanitary sewage which is improperly discharged into storm sewers).



All funds used for operation, maintenance, rehabilitation, and repair of the sewerage system are generated through fees and assessments. (Funding is not via the County's General Fund to perform these activities.)

The Department of Public Works has been in the forefront of regionalism efforts within the County. With services provided to more than half of the County's 59 communities, the Sanitary Division continues to maintain reasonable rates and improve infrastructure throughout the area.



GOALS

The Sanitary Engineering Division of Public Works has three (3) major goals:



1. Operate and maintain the sanitary sewerage systems to assist the communities in meeting the goals and objectives of the EPA Capacity Management Operation and Maintenance (CMOM) guidelines.
2. Provide guidelines for design and construction through the County's "*Uniform Standards for Sewerage Improvements*" and "*Rules and Regulations*."
3. Issue sewer connection permits and provide construction inspection for new sanitary sewers and new connections to existing sanitary sewers.

The goals of the Sanitary Engineering Division with respect to the maintenance and repair of sewers are accomplished through the activities of our three main Sanitary Division groups working together: Maintenance Services; Engineering & Construction Services; and, Administrative Services.

MAINTENANCE SERVICES

- Reduction of the number of flooded basements by maintaining existing capacity in the collection systems, minimize the inflow/infiltration of storm water to the sanitary system, and evaluate the structural integrity of the sewerage system;
- Optimization of maintenance efficiency to reduce operating costs and provide more available funds for capital improvement projects and repairs;
- Operation of wastewater treatment plants in compliance with the National Pollution Discharge Elimination System (NPDES) permit parameters;
- Maintenance and inspection of the existing collection system to achieve EPA CMOM maintenance goals;
- Operation and maintenance of pumping stations;
- Performance of Illicit Discharge Detection and Elimination Services





ENGINEERING AND CONSTRUCTION SERVICES

- Preparation of Task Orders for repairs and rehabilitation;
- Plan review and approval of all new sewer improvements within the County service area;
- Performance of engineering analyses (required for operation of facilities and the collection system);
- Capital improvement planning;
- Construction management and inspection;
- Provision of guidelines for new construction through use of the *CCDPW Uniform Standards for Sewerage Improvements*;
- Provision of infrastructure needs assessment for communities;
- Project design;
- Construction inspection of new wastewater collection systems within the county service area; and,
- Record keeping of as-built plans and test tee locations.



ADMINISTRATIVE SERVICES

- Issuance of connection permits;
- Maintenance of Record Drawings;
- Provision of Geographical Information Systems (GIS) for development and implementation;
- Fiscal oversight of annual operating budget and capital improvement budget;
- Administration of Grants and loans; and,
- Licensing and permitting of more than 200 contractors.

SUMMARY OF COUNTY-WIDE MAINTENANCE SERVICES

▪ SEWERS

- High-pressure jetting of sewers in the right-of-way, approximately 346 miles of sewers in 2019;
- Point repairs of sewers, force mains, and structures; 3,109 construction visits;
- Cleaning of service laterals, including emergency maintenance and 24-hour on-call team for resident issues;
- TV inspection of approximately 348 miles of sewers to provide condition ratings, failures and/or deficiencies;
- I/I investigation and remediation, 559 visits;
- Implementation of preventative maintenance and upgrades to treatment plants and pumping stations, as well as the provision of licensed operators to monitor the condition of those facilities.





The Maintenance Services Department provides a full-service program to clean sewers, provide National Association of Sewer Service Companies (NASSCO) Pipeline Assessment Certification Program (PACP) condition ratings of sewers, maintain the structural integrity of the sewer systems, and perform repairs on sanitary and storm sewers. The objective of the program is the cleaning of all sanitary sewers every three years and performing video inspection every six years. This time line is well within the NEORSD's *"Best Management Practices"* guidelines.

■ **HOUSE LATERAL SERVICES**

The Maintenance Services House Lateral Service Department cleaned 8,385 house connections in 2019. The goal is to alleviate sewer back-ups by clearing blocked mains and cleaning service connections to restore sewer capacity.

The House Lateral Service Department also performs flow monitoring for Inflow and Infiltration (I&I) analysis, dye testing, smoke testing, and lateral sewer inspection to identify I&I sources and locations of illicit discharges. The Department works with the communities, the Ohio EPA and the NEORSD to protect local waterways.

■ **PUMPING STATIONS**

The County operates 63 pumping stations throughout the 38 communities pursuant to the maintenance agreements. A Supervisory Control and Data Acquisition (SCADA) system monitors the stations. The system provides alarms and operational status through a central computer, providing 24-hour monitoring. New pump stations are added to the SCADA system as they come on-line. Our maintenance staff consists of experienced operators and technicians enabling us to repair most problems in-house, therefore keeping costs down. Their preventive maintenance program and dedication to the job has reduced emergency call-outs and overflows.



■ WASTEWATER TREATMENT PLANTS

The County operates two package wastewater treatment plants. The standards for each facility are set by the Ohio EPA through a National Pollution Discharge Elimination System (NPDES) permit. The support staff consists of wastewater operators, licensed by the Ohio EPA, who monitor the conditions of the plants and make necessary process adjustments to meet the requirements of each NPDES permit.



■ CAPACITY, MANAGEMENT, OPERATION, AND MAINTENANCE PROGRAM (CMOM)

The CMOM Program is a set of “best management practices” that have been developed by the industry and are applied over the life cycle of the sewer collection system. It is these general practices that are taken into consideration when a system is being reviewed by a federal or state agency. Improvement and recommendations are provided by the agencies based on deficiencies identified in the sanitary sewer system.

We continue to work with the NEORSD (through their community discharge program) and with the Ohio EPA to ensure that our Sanitary Division’s best practices meet the CMOM goals.





SUMMARY OF ENGINEERING & CONSTRUCTION SERVICES

The Engineering and Construction Services Departments provide technical services to the communities including, but not limited to, capital project planning, grant and loan administration, design engineering, construction management, as well as inspection of sanitary and storm sewers, pump stations, and wastewater treatment facilities.

The sewer repair and rehabilitation program is managed by in-house personnel. A Sanitary Division engineer is assigned to each community to provide an individual contact for sewer related issues. Under the existing sewer maintenance agreements (based on video inspection information and requests from the communities), the County issues Task Orders for repair and rehabilitation by our forces, supplemented by two third-party contractors.

In 2019, on behalf of member communities, design plans were reviewed for nearly 50 construction projects. The Sanitary Engineering Division also coordinates and analyzes the results of field testing and flow monitoring to detect and eliminate storm water inflow/infiltration (I/I) from the sanitary sewer system and illicit discharges to the storm sewer system. Record drawings are prepared, scanned, and filed for record keeping. Information on new sewers and service connections are provided to our IT personnel for incorporation into the County's Geographical Information System (GIS).

The Sanitary Engineering Division and the Construction Department also oversee capital construction projects, including the development of financial packages in the form of grants and loans obtained from the State of Ohio. These funds are utilized for lining, repairing, replacing, and rehabilitating existing sanitary and storm sewerage systems.

The Construction staff provides inspection of all new sanitary sewers and for the connection of service laterals to existing sewers. The Inspectors ensure that projects are constructed in conformance to design plans, specifications, and the County's *"Uniform Standards."*





SUMMARY OF ADMINISTRATIVE SERVICES

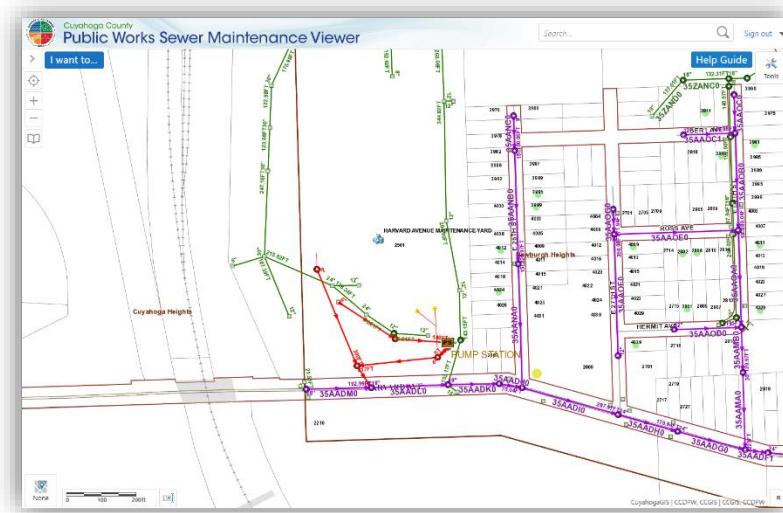
■ PERMITS

The County issues residential and commercial sewer service connection permits for 38 communities. Only contractors registered with the Department of Public Works can obtain a permit. The permit process includes inspection by the County to ensure that the work is performed in conformance to the "Uniform Standards and Details". Permanent records of all sewer connections are maintained by the County.

■ INFORMATION TECHNOLOGY

Information Technology (IT) provides computer and analytical support to internal end-users and to the communities serviced by the CCDPW. IT is responsible for the design, implementation, and maintenance of our Geographical Information System (GIS), other relational database systems, and guiding data acquisition tasks throughout the CCDPW. The GIS mapping program catalogues the location of sewer systems and performs analysis on spatial data. This information supports the planning, design, and maintenance of sewer systems, and ensures user fees are appropriately assessed and collected. Furthermore, the mapping program features access to information regarding permits that are on record.

Our Geographical Information System is continually being updated and expanded to include information on repair and rehabilitation activities as well as system maintenance and inspection activities. Information is shared between the County, member communities, and the NEORSD to improve services and foster collaboration.



■ FINANCE

The Finance Department provides support services to various units within the CCDPW. Automated cost accounting programs and systems ensure accurate tracking and monitoring of expenditures, revenues, rate structures, and other data that provide financing for capital projects and operational budgets. All systems and programs are operated under generally accepted accounting principles. The CCDPW oversees an annual storm and sanitary sewer operating budget of more than \$17 million. Finance is responsible for accounts receivable, accounts payable, cost accounting, audit, inventory control, capital project financing, purchasing, and sewer assessment revenue management for member communities.

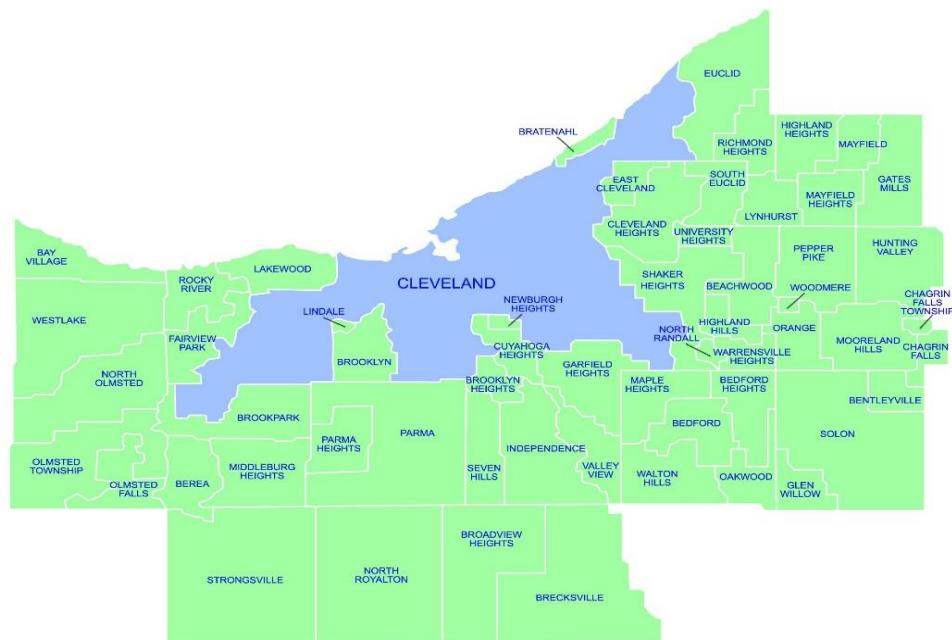


Appendix Description*

The following appendices contain a variety of reports representing the services provided to member communities in 2019. The CCDPW follows a manhole-to-manhole, sewer segment-based accounting method for jet cleaning and TV (video) inspection maintenance services. The first two appendices contain listings of the collection system cleaned and inspected for the year by street. The next appendix lists the plan approvals for the more significant projects submitted to, reviewed and approved by the Engineering Department during the year for your community. Smaller review services such as house connections or ongoing, intermittent review of large multi-phase projects spanning several years of development are not shown on this report. The final appendices provide a breakdown of services including house visits, inflow/infiltration studies, construction activity, operating expenses, and capital project costs contracted for the community.

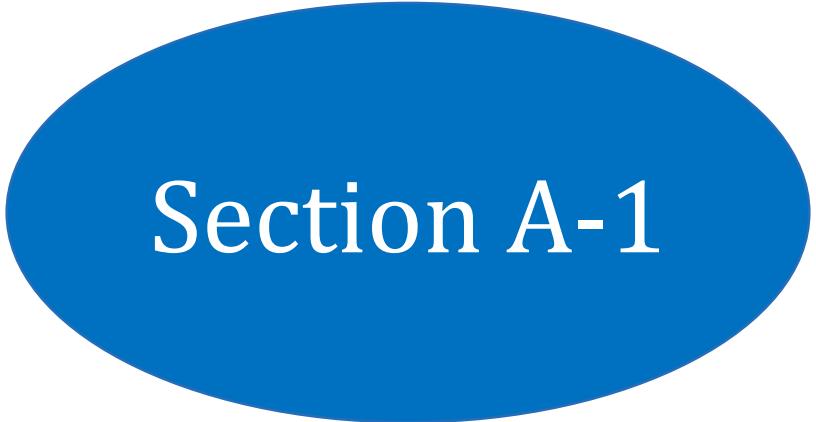
This annual report along with a map showing areas where collection system mainlines were jet cleaned and TV inspected, and locations where construction crew activities (e.g., house visits, and where house lateral connections needed to be cleaned or inspected) were provided, is available on our website at <http://publicworks.cuyahogacounty.us/en-US/Sewer-Maintenance-Services.aspx>. Adobe Corporation's free reader software is required and can be downloaded from www.adobe.com.

***Please note:** These appendix reports are provided only to communities for which specific services are provided by the CCDPW. For example, if regularly scheduled mainline cleaning service is not provided for your community, a map was not produced. Similarly, if project review or capital project management services are not provided for your community, then there is also no corresponding report. Furthermore, certain specific member communities are provided limited maintenance only on County improvement mainlines and/or facilities.





Community Streets Cleaned*



Section A-1

*No service provided if section is blank

Collection System 2019 Jet Cleaning

Richmond Heights

SANITARY

Street Count: 102

STREET	Jet Footage	# of segments
AIRPORT EASEMENT	1,772	5
ALBERT COURT	320	1
ALLENDALE DRIVE	1,147	8
AUDREY DRIVE	2,097	10
BALMORAL DRIVE	1,799	10
BALMORAL EASEMENT	100	1
BEVERLY HILLS DRIVE	965	4
BRANDYWINE DRIVE	400	2
BRANFORD DRIVE	357	2
BRIDGEPORT TRAIL	1,001	4
BROOKDALE ROAD	518	2
BRUSH ROAD	2,866	13
BRUSHVIEW DRIVE	2,778	8
BRUSHVIEW EASEMENT	400	1
CARY JAY BOULEVARD	2,755	13
CATLIN ROAD	4,982	23
CHARDON EASEMENT	1,024	6
CHARDON ROAD	5,737	28
CHARDONVIEW DRIVE	1,954	7
CHELFORD ROAD	735	4
CHESTNUT LANE	1,431	9
CLAYMORE BOULEVARD	3,044	19
COUNTRY LANE	784	5
CURTISS WRIGHT EASEMENT	944	3
CURTISS WRIGHT PARKWAY	2,876	15
DANBURY LANE	528	3
DONNA DRIVE	3,454	23
DOUGLAS BOULEVARD	2,372	10
DUMBARTON BOULEVARD	3,651	19
DUMBARTON EASEMENT	480	2
DUNDEE DRIVE	723	5
EDGEMONT DRIVE	1,198	11
EDGEWOOD ROAD	974	4
EUCLID CHAGRIN PARKWAY	2,189	9
FAIRLAWN DRIVE	587	5
FOXWYNDE TRAIL	446	3
GEORGETOWN EASEMENT	239	1
GEORGETOWN ROAD	918	5
GLASTONBURY CIRCLE	450	2
HARMS ROAD	700	2
HARRIS ROAD	4,814	18
HARRISON DRIVE	902	8

HEATHER LANE	577	2
HIGHLAND EASEMENT	863	3
HIGHLAND PLACE COURT	1,083	8
HIGHLAND RIDGE DRIVE	1,300	13
HIGHLAND ROAD	8,005	41
HIGHPOINT DRIVE	76	1
HILLCREST DRIVE	1,003	4
HILLTOP EASEMENT	601	2
HORIZON DRIVE	877	5
HUCKLEBERRY DRIVE	434	3
HUCKLEBERRY EASEMENT	450	2
JEANNETTE DRIVE	1,762	6
KAREN ISLE DRIVE	2,263	10
KARL DRIVE	3,870	17
KNOLLWOOD TRAIL	2,207	12
LINDSEY LANE	60	3
LITCHFIELD DRIVE	705	4
LOGANBERRY DRIVE	1,648	8
MANCHESTER COURT	168	1
MERIT DRIVE	796	3
MERIT EASEMENT	479	2
MONTICELLO BOULEVARD	0	1
MULBERRY CIRCLE	341	3
NAN LINN DRIVE	2,628	12
NEWCOME STREET	600	2
PLEASANT EASEMENT	585	2
PLEASANT TRAIL	1,952	7
RACHEL LANE	1,316	7
RICHMOND BLUFFS DR	2,576	16
RICHMOND ROAD EASEMENT	234	1
RICHMOND ROAD	9,988	46
ROCKLEDGE LANE	550	2
ROYAL OAK BOULEVARD	2,999	14
ROYAL OAK EASEMENT	350	2
RUSHMORE DRIVE	2,199	13
RUSHMORE EASEMENT	267	1
RUTH ELLEN DRIVE	702	5
RUTH ELLEN EASEMENT	348	2
SANDY HILL DRIVE	1,038	9
SANDY HILL EASEMENT	225	1
SEDLEY STREET	679	2
SENECA TRAIL	728	7
SKYLINE DRIVE EASEMENT	214	1
SKYLINE DRIVE	2,653	13
STEVEN BOULEVARD	2,720	13
STONELEDGE DRIVE	1,318	11
SUNSET DRIVE EASEMENT	170	1
SUNSET DRIVE	3,604	14
SWETLAND BOULEVARD	2,979	14

SWETLAND COURT	357	1
SWETLAND EASEMENT	1,638	6
TERRELL COURT	221	1
TREBISKY ROAD	2,394	8
WALLINGFORD GLEN	318	2
WASHINGTON DRIVE	957	10
WETHERSFIELD COURT	525	3
WHITE ROAD	1,881	10
WHITEWAY DRIVE	1,084	9
WILSON MILLS ROAD	348	1
WOODBRIDGE GLEN	672	3

JET SANITARY TOTAL: 150,996 623

STORM

Street Count: 27

STREET	Jet Footage	# of segments
AUSTEN LANE	1,425	7
BRUSH ROAD	0	1
CARY JAY BOULEVARD	292	1
CHARDON ROAD	250	1
CYNTHIA COURT	318	4
EDGEWOOD ROAD	1,874	7
FOXLAIR TRAIL	405	2
FOXWYNDE TRAIL	1,109	5
HARRIS ROAD	432	3
HIGHLAND PLACE COURT	1,025	9
HIGHLAND ROAD	1,178	9
JEANNETTE DRIVE	0	1
KAREN ISLE DRIVE	295	1
KENBRIDGE DRIVE	458	2
KIPLING COURT	160	1
KIPLING EASEMENT	165	1
MEADOWLANE DRIVE	2,880	10
NAN LINN DRIVE	305	1
PIERSON DRIVE	853	4
ROYAL OAK BOULEVARD	60	1
RUSHMORE DRIVE	342	2
SKYLINE DRIVE	130	1
SNAVELY ROAD	202	1
SWETLAND BOULEVARD	350	1
TREBISKY ROAD	865	4
WHITE ROAD	235	1
WILSON MILLS ROAD	2,000	9

JET STORM TOTAL: 17,608 381

JET SANITARY & STORM GRAND TOTAL: 168,604 1,004

Community Streets Inspected*



Section A-2

*No service provided if section is blank

Collection System 2019 CCTV Inspection

RICHMOND HEIGHTS

SANITARY

Street Count: 70

STREET

TV Footage

of segments

ALBERT COURT	315	1
ALLENDALE DRIVE	1,050	7
AUDREY DRIVE	2,190	9
BALMORAL DRIVE	2,295	14
BEVERLY HILLS DRIVE	971	4
BRANDYWINE DRIVE	204	1
BRANFORD LANE	360	2
BRIDGEPORT TRAIL	1,001	4
BRUSHVIEW DRIVE	1,638	5
CARY JAY BOULEVARD	2,350	9
CATLIN ROAD	11,057	45
CELESTIA DRIVE	706	4
CHARDON ROAD	562	4
CLAYMORE BOULEVARD	2,325	13
COUNTRY LANE	428	3
CRANLEIGH COURT	232	1
CYNTHIA COURT	1,152	10
DANBURY LANE	527	3
DICKENS DRIVE	300	1
DONNA DRIVE	2,481	16
DOUGLAS BOULEVARD	2,318	10
DUMBARTON BOULEVARD	1,411	6
DUMBARTON EASEMENT	731	3
DUNDEE DRIVE	878	7
EDGEWOOD ROAD	755	6
FAIRLAWN DRIVE	581	5
FOXLAIR TRAIL	682	4
FOXWYNDE TRAIL	914	6
GEORGETOWN ROAD	1,102	5
GLASTONBURY CIRCLE	455	2
GLEN OVAL	47	1
HARMS ROAD	344	1
HARRIS ROAD	5,031	18
HEATHER LANE	580	2
HIGHLAND EASEMENT	1,042	4
HIGHLAND PLACE COURT	1,647	11
HIGHLAND RIDGE DRIVE	1,363	13
HIGHLAND ROAD	12,670	54
HILLCREST DRIVE	701	3
JEANNETTE DRIVE	3,515	15
KAREN ISLE DRIVE	1,760	7

KARL DRIVE	3,758	15
KNOLLWOOD TRAIL	2,214	12
LITCHFIELD DRIVE	715	4
MANCHESTER COURT	159	1
MEADOWLANE DRIVE	228	1
MONTICELLO BOULEVARD	349	1
NAN LINN DRIVE	1,028	5
PIERSON DRIVE	1,260	7
PLEASANT TRAIL	2,464	9
QUEENSBORO DRIVE	528	2
RACHEL LANE	1,031	7
RICHMOND BLUFFS DRIVE	1,944	12
RICHMOND ROAD	5,127	23
ROCKLEDGE LANE	554	2
ROYAL OAK BOULEVARD	2,735	13
RUSHMORE DRIVE	2,201	13
SENECA TRAIL NORTH	356	3
SENECA TRAIL SOUTH	287	3
SKYLINE DRIVE	2,499	12
STEVEN BOULEVARD	3,089	15
STEVENSON STREET	2,445	8
STONELEDGE DRIVE	1,272	11
SUNSET DRIVE	2,495	9
SWETLAND BOULEVARD	2,164	9
TREBISKY ROAD	2,864	10
WALLINGFORD GLEN	317	2
WETHERSFIELD COURT	528	3
WILSON MILLS ROAD	350	1
WOODBRIDGE GLEN	686	3

CCTV SANITARY TOTAL: 116,317 555

STORM

Street Count: 32

STREET	TV Footage	# of segments
ALLENDALE DRIVE	108	1
BRUSHVIEW DRIVE	301	1
CARY JAY BOULEVARD	296	1
CATLIN DRIVE	45	1
CHARDON ROAD	292	2
CHERITON DRIVE	240	1
CYNTHIA COURT	50	2
EDGEWOOD ROAD	2,746	11
FOXLAIR TRAIL	1,311	5
FOXWYNDE TRAIL	650	2
HARRIS ROAD	251	2
HIGHLAND PLACE COURT	1,858	13
HIGHLAND ROAD	2,410	14
HILLCREST DRIVE	111	1
JEANNETTE DRIVE	533	4
KAREN ISLE DRIVE	164	1

KARL DRIVE	254	1
KENBRIDGE DRIVE	231	2
MEADOWLANE DRIVE	2,646	10
MONTICELLO BOULEVARD	657	2
PIERSON DRIVE	1,498	3
QUEENSBORO DRIVE	376	1
RACHEL LANE	416	3
RADFORD DRIVE	693	3
RICHMOND PARK DRIVE WEST	10,436	57
RICHMOND PARK DRIVE EAST	1,462	8
RUSHMORE DRIVE	565	4
SKYLINE DRIVE	130	1
STACY COURT	504	2
SWETLAND BOULEVARD	1,315	4
WHITE ROAD	200	1
WILSON MILLS ROAD	2,027	11

CCTV STORM TOTAL: 34,776 175

CCTV SANITARY & STORM GRAND TOTAL: 151,093 730

Plan Approvals*



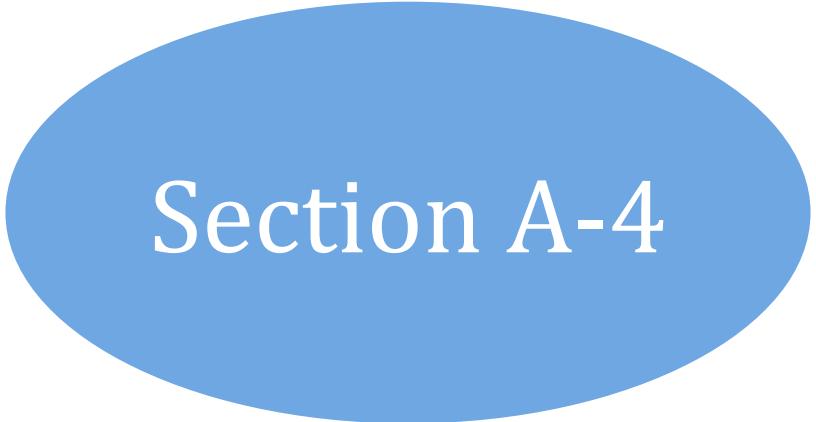
Section A-3

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Richmond Heights Plan Approvals

Project ID	Project Name	Approval Date
19-002	Kiwanis Lodge	6-Feb-2019
19-016 (2)	Selman Company	26-Apr-2019
19-010	New Upper School	22-Aug-2019

Service Program Summary*



Section A-4

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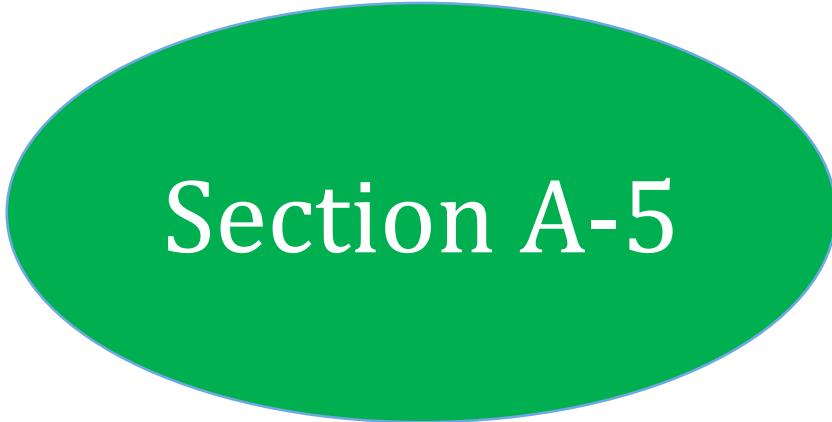
City of Richmond Heights

<u>Type</u>	<u>Community Total</u>
Sanitary Sewer Manholes	213,881 Feet 1,050 (Approximately)

2019 Service Program

<u>Program</u>	<u>2019 Activity</u>
1) High Pressure Jet Cleaning Sanitary - 150,996 Feet Storm - 17,608 Feet	168,604 Feet
2) House Service	295 Calls
3) Television Inspection Sanitary - 116,317 Feet Storm - 34,776 Feet	151,093 Feet
4) Construction Activities	146 Job(s)
5) Dye Testing	199 Test(s)
6) Construction Permits Issued (Commercial) (Residential)	6 43
7) Plan Approvals	3 Plan(s)
8) Construction Inspection a) Main Lines Inspected b) Public R.O.W. Service Laterals c) Commercial/Residential Service Laterals	68 Feet - Feet 5,950 Feet
9) Catch Basins Cleaned	4

Community Operating Expenses*



Section A-5

*No service provided if section is blank

City of Richmond Heights

2019 Operating Expenses

<u>Activity</u>	<u>Cost</u>
1. Maintenance of Sanitary Sewerage Systems	\$ 886,092
2. Pump Station Operation and Maintenance	\$ 91,945
3. Waste Water Treatment Plant Maintenance	\$ 0
4. Engineering and/or Inspection	\$ 68,602
5. Capital Expenses (See Section A-6 if any)	\$ 64,215
Total Operating Expenses:	\$ 1,110,854

Community Capital Expenses*



Section A-6

*No service provided if section is blank

City of Richmond Heights

2019 Capital Expenses

Chardon Road Repair	\$ 14,276
Royal Oak Boulevard Repair	\$ 23,307
Richmond Road Repair	\$ 26,632
Total Capital Expenses:	\$ 64,215



CONTACT INFORMATION

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David E. Marquard, P.E.,P.S.	Design & Construction Administrator
Nichole L. English, P.E.	Interim Finance & Operations Administrator
Brian Stapleton	Deputy Chief of Maintenance
Bryan J. Hitch	Sewer Maintenance Superintendent
Hugh Blockside, P.E.	Chief Engineer Sewer Operations

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Cuyahoga County

Department of Public Works

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Cuyahoga County
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