



2013 ANNUAL REPORT
Prepared For The:
CITY OF PARMA



CUYAHOGA COUNTY
DEPARTMENT OF PUBLIC WORKS

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CUYAHOGA COUNTY DEPARTMENT of PUBLIC WORKS

March 31, 2014

The Honorable Timothy DeGeeter
City of Parma
6611 Ridge Road
Parma, Ohio 44129

Dear Mayor DeGeeter:

It is with great pride that I present to you the 2013 Annual Report for the Cuyahoga County Department of Public Works Sanitary Division. This report contains a detailed overview of services performed and work completed within your municipality, including operating expenses over the past year. As in previous reports, we have included maps displaying the following: the cleaning and inspection of system mainlines, locations of construction activity, inflow and infiltration areas of study, house visits, and the cleaning and inspection of lateral connections, as it pertains to the service in which we provide to you.

Overall, this year we have cleaned 1,689,015 feet of sewer; video inspected 1,486,118 feet of sewer; made 9,316 house calls; performed 159 smoke/dye tests and completed 2,778 construction repairs on community sewer systems.

Though our labor, material and equipment costs have risen, we have maintained our rates for over five years by improving our efficiencies. We have saved the cities, villages and townships over \$1 million through our increased efficiencies. These savings can be funneled to much needed capital improvement projects.

Respectfully submitted,

Bonita G. Teeuwen, P.E.
Director of Public Works

OVERVIEW

Originally established in 1919, the Sanitary Engineering Division was created to administer 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, and now operates under the County Executive Ed FitzGerald.

Our focus on needs assessment, engineering feasibility studies, maintenance and repair of aging sewer lines, as well as other infrastructure-related issues, has a direct impact on commercial and residential development, job creation, and expanded tax base in the communities served by the Department of Public Works.

This Division is a major source of information and guidance that mayors, municipal engineers, and service directors rely on when making infrastructure decisions within their community. The Division has considerable experience in the maintenance of sanitary and storm sewer lines, many of which are old and have performed beyond their design life. Moreover, the Division has much expertise with respect to wastewater treatment plants and pump stations.

Public Works directs an operation which now encompasses more than 34 communities and maintains nearly 1,200 miles of sanitary sewers, treats millions of gallons of wastewater, operates 51 sewage-pumping stations, and maintains 2 wastewater treatment plants throughout Cuyahoga County. The Division also has agreements with municipal corporations for the establishment, operation, and maintenance of sanitary sewers.

Working in cooperation with the Ohio Environmental Protection Agency (Ohio EPA), the Northeast Ohio Regional Sewer District (NEORS), the City of Cleveland Division of Water, and the Cuyahoga County Board of Health; the Division manages a Capital Improvement Program (CIP) used for upgrading or replacing the existing infrastructure and for expanding sewers to non-sewered areas. The CIP includes information about project type, location, funding, preliminary engineering, and final plan development.

All operating funds for the Division are created through fees and assessments. The Division does not receive a subsidy through the County General Fund; however, it does use the General Fund's bonding capacity.

The Department of Public Works has been in the forefront of regionalism efforts, and with services provided to over half of the 59 communities within county lines, the office continues to maintain reasonable rates and improved infrastructure throughout the area.

MISSION STATEMENT

“To provide and maintain a safe and efficient regional infrastructure system for residents, employees, businesses and visitors through innovative solutions, high-quality workmanship and superior customer service.”



- Reduce the number of flooded basements by decreasing mainline blockage, minimize the inflow/infiltration of storm water in the sanitary system, and evaluate the structural integrity of entire sewerage system;
- Increase efficiency to reduce operating cost and produce more available funding for capital improvement projects;
- Operate wastewater treatment plants in compliance of National Pollution Discharge Elimination System (NPDES) permit parameters;
- Provide guidelines for new construction through use of *Uniform Standards for Sewerage Improvements*;
- Review and approve new improvement plans; and
- Provide infrastructure needs assessment for communities.

- Capital improvement planning
- Plan review and approval of all new sewer improvements within the County sewer districts
- Construction management
- Geographic information systems (GIS)
- Project design
- Engineering analysis (required for operation of facilities and the collection system)
- Operational checks (EPA permit compliance)

- Operation and maintenance of wastewater treatment plants and pumping stations
- Inspection of new wastewater collection and transportation systems within County sewer districts
- Issuance of connection permits
- Issuance of sewer builders' licenses
- Development, implementation and monitoring of safety guidelines

GOALS OF THE PUBLIC WORKS DEPARTMENT

ENGINEERING SERVICES

FACILITIES OPERATION & MAINTENANCE



ADMINISTRATIVE SUPPORT SERVICES

In addition to the extensive maintenance services we offer, our administrative support includes the following:

- Capacity, Management, Operation, and Maintenance (CMOM) Program as regulated through the US EPA to help prevent Sanitary Sewer Overflows (SSO's)
- Maps and spatial analysis for design and service management
- Geographical information systems for development and implementation
- Record keeping, as-built plans and test tee location
- Fiscal oversight of annual operating budget and capital improvement budget
- Grant and loan administration
- Licensing and permitting of over 200 contractors
- Inspection of sewers and project oversight
- Design and review of construction projects and analysis of field testing

Maintenance Services

Mainline
Sewer
Cleaning

Lateral &
Mainline
Sewer
Repair

Lateral
Cleaning
(From
Test Tee
to
Mainline)

Smoke
& Dye
Testing

Digital
Video
Inspection

Treatment
Plant &
Pump
Station
Maintenance
&
Operation

24-Hour
Call
Out
Services

SUMMARY OF SERVICE DELIVERY

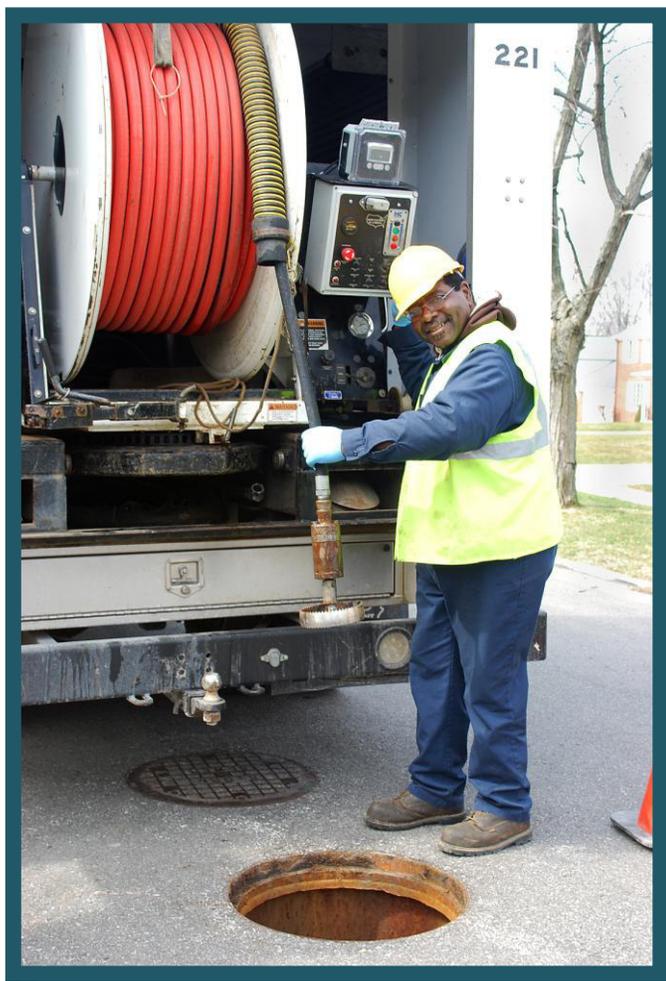
- High-pressure jetting of street sewer from the right-of-way, approximately 1,200 miles of sanitary sewers.
- Point repairs as well as capital improvement projects
- Cleaning of line from right-of-way to the house, approximately 7,500 houses annually
- Inflow and Infiltration testing and solutions
- Televising of lines for identifying possible failures or deficiencies
- Licensed wastewater operators to monitor the condition of the treatment plants and pumping stations, as well as implement upgrades and preventative maintenance.
- Emergency maintenance and 24- hour on-call team for resident issues

INTERNAL STRUCTURE OF THE DIVISION

SEWER MAINTENANCE

The Sewer Maintenance section provides a full-service program to clean, evaluate, maintain structural integrity, and perform construction on sanitary and storm sewers. The general program consists of cleaning all sanitary sewers every three years and televising all sanitary sewers every six years, which is well within the NEORSD's

"Best Management Practices" guidelines.



The Division cleans approximately 7,500 house connections annually. The goal is to reduce basement flooding through inflow/infiltration reduction, reduce blocked mains, clean service connections and maximize sewer capacity.

The Department of Public Works has an Inflow and Infiltration section within the Lateral Service Department. This section uses various tools; flow meters to monitor sanitary mainlines during both dry and wet weather conditions as well as measuring wastewater flows coming into treatment plants and water flows in storm sewers. Smoke and dye testing can isolate areas affected by excessive volumes of clean runoff into the sanitary sewer system. When used

in unison, meters can detect extraneous water while smoke and dye testing can identify illegal downspout connections. Meters can also detect rainwater infiltrating through the ground and into sanitary sewers through bad pipe joints and cracked or broken pipe.

ENGINEERING

The Engineering Section provides technical services to its customers including capital project planning, grant and loan administration, design engineering, construction management, and inspection of sanitary and storm sewers, pump stations, and wastewater treatment facilities.

This section oversees capital construction projects that include financing in the forms of grants and loans obtained from the State of Ohio, as well as saving through maintenance efficiencies. These funds are utilized for lining, repairing, replacing, and rehabilitating existing sanitary and storm sewerage systems.

The Engineering Section reviews design plans for approximately eighty-five construction projects per year on behalf of thirty-four communities. It also coordinates and analyzes the results of field testing and flow monitoring in order to detect and eliminate storm water inflow/ infiltration from the sanitary sewer system. In addition, the Engineering Section maintains files and legal libraries of pertinent federal, state, and local regulations and renders technical assistance to other sections regarding these regulations.



INSPECTION/PERMITS

The Inspection and Permit section operates in 34 suburban communities. This section's major functions include: the licensing, bonding and permitting over 200 contractors, construction inspection of sanitary and storm sewers; which includes: residential, commercial, and industrial; along with the inspection of wastewater treatment plants and pumping stations. This section also maintains the permanent records for sewerage construction projects and provides information to all County departments, engineering consulting firms, contractors, and the public.

ENVIRONMENTAL SERVICES

■ Wastewater Treatment Plants

The County operated 2 wastewater treatment package plants. These facilities treated 147 million gallons of wastewater per year. The standards are set for each facility by the Ohio EPA through the 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 NPDES permit.



■ Pumping Stations

The County operates 51 pumping stations throughout the 34 service communities. A Supervisory Control and Data Acquisition (SCADA) system monitors 41 of the stations. The system provides alarms and operational status through a central computer that is accessed from a remote computer providing 24 hour monitoring. It is our goal to upgrade all County operated pump stations and to expand the SCADA system to all new projects. Our maintenance staff consists of professional mechanics 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.

ENVIRONMENTAL SERVICES, continued

■ 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 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 such agencies based on deficiencies identified in the sanitary sewer system.

The United States EPA contacted our agency in July of 2009 in response to our CMOM's Report. In general, our Management, Maintenance and Operational processes meet the standard of the United States EPA. The main issue identified by them as a deficiency relate to any sanitary sewer overflows (SSO's). As we work with the communities to eliminate these overflows, the United States EPA has notified us that we have eliminated the noted deficiencies to our CMOM's Report and that we are in compliance with these "best management practices".



INFORMATION TECHNOLOGY

The Information Technology (IT) Section provides computer and analytical support to internal end users and communities within the Department. It is responsible for the design, implementation and maintenance of geographical map-based and other relational database systems, as well as guiding data acquisition tasks throughout the Division. In addition, the computerized mapping program catalogues the location of sewer systems and performs analysis on spatial data. This ability supports the planning, designing, and maintenance of sewer systems, as well as ensuring user fees are appropriately assessed and collected. Furthermore, the mapping program now features attached permits and engineering drawings.

In 2012 the IT Section completed 24 new computer installations according to the County's cyclical replacement policy. The IT Section also assisted in the removal of multiple personal printers in favor of centralized and efficient print centers; improved the engineers' access to the Geographic Information System and related analytical tools; and continues to assist internal departments with moving to a more digital, paperless record keeping system.



FINANCE SECTION

The Finance Section provides support services to various units within the Public Works Department. Automated cost accounting programs and systems ensure accurate tracking and monitoring of expenditures, revenues, rate structures and other data that provide planning for capital projects and operational budgets. All systems and programs are operated under generally accepted accounting principles.

The Finance Section oversees an annual sanitary operating budget in excess of \$14 million and an annual capital improvement budget of \$5- \$10 million. The capital improvement plan is administered by this section and revenues, as well as expenditures, are approved and monitored for each individual improvement. Finance is responsible for accounts receivable, accounts payable, cost accounting, audit, inventory control, vehicle inventory management, capital project financing, purchasing, and the assessment of users fees.

APPENDIX DESCRIPTION*

The following appendices contain a variety of reports representing the services provided to communities in 2013. The Public Works Department follows a manhole-to-manhole, sewer segment-based accounting method for Jet Cleaning and TV Inspection maintenance services. The first two reports contain listings of the collection system cleaned and inspected for the year by street. The following report discloses the more significant projects submitted and reviewed by the Permit and Engineering sections 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 are from the Finance and Billing section. These reports provide a breakdown of operating expenses, capital project costs contracted for the community, as well as additional services including house visits, inflow/infiltration studies, and construction activity. A map is enclosed showing areas where collection system mainlines were Jet cleaned and TV inspected, construction crew activity locations, house visits and if house lateral connections needed to be cleaned or inspected. The DVD provided contains a PDF file of the map, which can be copied for distribution. 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 the specific service is provided by the Department of Public Works. 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 to your community, then there is no corresponding report. Certain communities are provided limited maintenance on county improvement mainlines and/or facilities only.



6100 West Canal Road, Valley View, OH 44125 | **ph** 216.443.8201 | **fx** 216.443.8276

publicworks.cuyahogacounty.us | PublicWorks@cuyahogacounty.us

Section A-1

Community Streets Cleaned*

* No service provided if section is blank

Collection System Jet Cleaning - 2013

Parma

STREET	NUMBER OF SEGMENTS	JET FT
ABBOT DRIVE	2	351
ACKLEY EASEMENT	1	315
ACKLEY ROAD	27	6,553
ALBER AVENUE	9	2,634
ALBERTLY AVENUE	22	6,075
ALDEN DRIVE	7	2,018
ALLANWOOD DRIVE	6	1,695
ARROW LANE	19	3,610
AUGUSTINE DRIVE	24	5,271
AVALON DRIVE	3	698
AVALON EASEMENT	1	125
BELMERE DRIVE	11	2,742
BERESFORD AVENUE	1	286
BERTHA AVENUE	6	1,820
BISCAYNE BOULEVARD	15	3,716
BOWMEN LANE	3	763
BRADLEY AVENUE	2	461
BRIAN DRIVE	1	179
BROADROCK COURT	4	424
BROADVIEW ROAD	14	2,426
BROOKDALE AVENUE	1	130
BROOKPARK ROAD	3	713
BROWNFIELD DRIVE	12	3,246
BRUENING DRIVE	3	766
BUCKINGHAM DRIVE	9	1,934
CENTER DRIVE	19	6,227
CHARLES AVENUE	7	1,914
CHESTERFIELD AVENUE	13	4,343
CHESTNUT DRIVE	1	130
CHESTNUT HILLS DRIVE	17	4,229
CHEVROLET BOULEVARD	3	416
COMMONWEALTH DRIVE	8	2,420
CONCORD DRIVE	12	3,440
CONCROD DRIVE	1	125
COVENTRY DRIVE	2	500
COVINGTON AVENUE	4	1,079
DALESIDE AVENUE	8	1,444
DALESIDE DRIVE	2	363

Collection System Jet Cleaning - 2013

Parma

STREET	NUMBER OF SEGMENTS	JET FT
DARTWORTH DRIVE	18	4,296
DAWNSHIRE DRIVE	14	4,193
DAY DRIVE	2	426
DEERFIELD DR	2	652
DEERFIELD DRIVE	18	5,524
DELLWOOD DRIVE	10	2,367
DONCASTER DRIVE	3	507
DOROTHY AVENUE	11	3,248
EAST PARKVIEW DRIVE	4	790
EDGECLIFF DRIVE	12	2,312
FARNSWORTH DRIVE	6	1,900
FATIMA DRIVE	8	1,349
FERNHILL AVENUE	1	300
FORDHAM DRIVE	4	720
FOREST AVENUE	5	1,313
FOREST HILLS BOULEVARD	4	601
FORESTWOOD DRIVE	29	8,371
FREEHOLD AVENUE	2	200
FRUITLAND DRIVE	17	6,807
FRUITLAND RIVE	1	291
GEORGE AVENUE	14	3,714
GETTYSBURG DRIVE	9	1,973
GILBERT AVENUE	4	1,056
GLAMER DRIVE	27	6,579
GLENN DRIVE	1	170
GOEBEL DRIVE	5	1,032
GRANT DRIVE	5	1,210
GRANTWOOD DRIVE	29	8,083
GROSS DRIVE	2	690
GUADALUPE DRIVE	6	986
GUADALUPE EASEMENT	1	300
HAMPSTEAD AVENUE	5	1,464
HARWOOD DRIVE	4	818
HAVERHILL AVENUE	10	2,592
HERESFORD DRIVE	3	850
HETZEL DRIVE	19	4,868
HILLTOP DRIVE	6	1,523
HOLBURN ROAD	12	1,906

Collection System Jet Cleaning - 2013

Parma

STREET	NUMBER OF SEGMENTS	JET FT
HOLLY CIRCLE	1	201
HOLLYWOOD DRIVE	6	1,437
HOWARD STREET	1	124
INGLESIDE DRIVE	4	1,137
INVANDALE DRIVE	1	349
IVANDALE DRIVE	11	2,699
JAMESON ROAD	1	207
JANICE DRIVE	2	257
JEANNE DRIVE	13	3,634
JUDY DRIVE	9	1,362
KELSEY ROAD	2	507
KELTONSHIRE ROAD	3	955
KENMORE AVENUE	12	3,738
KENNETH AVENUE	4	1,061
KENTON AVENUE	9	1,826
KERNEYWOOD DRIVE	1	261
KERNEYWOOD ROAD	7	1,130
KEYSTONE ROAD	1	325
KING RICHARD DRIVE	6	1,478
KLUSNER AVENUE	17	4,391
KRUEGER AVENUE	9	1,933
LANCELOT DRIVE	4	967
LANYARD DRIVE	1	283
LAURENT DRIVE	3	431
LAVERNE AVENUE	5	1,015
LEE DRIVE	3	547
LIGGETT DRIVE	8	2,508
LINCOLN AVENUE	1	361
LIST LANE	2	666
LONGWOOD AVENUE	11	3,361
LOURDES DRIVE	8	1,381
LOYOLA DRIVE	7	1,075
LUCERNE AVENUE	22	5,694
LUCERNE EASEMENT	3	900
LUELDA AVENUE	3	1,108
LYLE AVENUE	1	200
LYNETT DRIVE	1	276
MANASSAS OVAL	1	210

Collection System Jet Cleaning - 2013

Parma

STREET	NUMBER OF SEGMENTS	JET FT
MANCHESTER ROAD	30	7,595
MANORFORD DRIVE	7	1,934
MAPLE DRIVE	5	755
MAPLECREST AVENUE	17	4,378
MARDA DRIVE	13	3,135
MARIONCLIFF DRIVE	8	2,220
MARKO LANE	4	354
MAZEPA TRAIL	6	1,693
MEADOW LANE	2	400
MERKLE AVENUE	3	1,052
MILFORD AVENUE	9	2,361
MILFORD ROAD	1	224
MONMOUTH ROAD	3	728
MONTAUK AVENUE	3	918
MORNINGSIDE DRIVE	4	1,102
NORRIS AVENUE	9	2,500
NORTH CANTERBURY	1	113
NORTH CANTERBURY ROAD	11	2,330
OAKDALE	2	600
OAKLAWN DRIVE	1	178
OAKWOOD ROAD	1	242
ORCHARD AVENUE	10	3,429
ORCHARD PARK DRIVE	5	1,262
OXFORD DRIVE	4	1,286
PARK DRIVE	12	3,949
PARKLAND DRIVE	5	1,332
PARKLANE DRIVE	7	2,150
PARMENTER DRIVE	5	1,473
PEARL ROAD	4	1,122
PELHAM DRIVE	9	2,445
PERSHING AVENUE	12	3,573
PRISCILLA AVENUE	1	278
RAVINE BOULEVARD	1	220
REDFERN ROAD	24	5,711
REGENCY DRIVE	32	6,501
RENWOOD DRIVE	26	6,708
RIDGEWOOD AVENUE	5	1,637
RIDGEWOOD LAKES DRIVE	8	1,273

Collection System Jet Cleaning - 2013

Parma

STREET	NUMBER OF SEGMENTS	JET FT
RIESTER STREET	1	322
ROSESIDE AVENUE	7	1,159
ROYCROFT DRIVE	4	970
RUSSELL AVENUE	13	3,680
RUSTIC TRAIL	14	2,202
SAGAMORE ROAD	4	823
SALISBURY DRIVE	5	1,311
SASSAFRAS DRIVE	1	82
SHENANDOAH OVAL	1	200
SHERATON DRIVE	23	6,186
SHERIDAN DRIVE	9	2,082
SHERMAN DRIVE	5	1,190
SNOW ROAD	3	966
SOMIA DRIVE	10	2,651
SOUTH CANTERBURY ROAD	15	3,625
SOUTH PARK BOUEVARD	1	327
SOUTH PARK BOULEVARD	61	12,903
SOUTHINGTON DRIVE	18	7,251
SOUTHINGTON EASEMENT	1	305
SPRAGUE ROAD	1	280
SPRING GARDEN ROAD	7	1,984
STANBURY ROAD	13	3,677
STANDISH AVENUE	7	1,548
STANFIELD DRIVE	21	6,904
STATE ROAD	11	2,183
STORMES DRIVE	11	2,377
STRATFORD DRIVE	2	534
STRATFORD ROAD	2	553
SUNDERLAND DRIVE	8	2,470
THEOTA AVENUE	31	7,852
THORNCLIFFE BOULEVARD	12	1,963
THORNTON DRIVE	18	4,598
THORTON DRIVE	1	334
TORRINGTON AVENUE	10	2,858
TRACY TRAIL	1	245
TUXEDO AVENUE	16	4,358
TWIN LAKES DRIVE	6	1,346
VALEWOOD EASEMENT	3	482

Collection System Jet Cleaning - 2013

Parma

STREET	NUMBER OF SEGMENTS	JET FT
VELMA AVENUE	4	1,418
VICKSBURG DRIVE	10	2,043
VIRGINIA AVENUE	5	1,609
WAINSTEAD DRIVE	8	2,248
WAKE ROBIN DRIVE	1	60
WALES AVENUE	6	1,936
WALTER AVENUE	4	1,632
WAREHAM DRIVE	6	1,498
WARWICK DRIVE	2	653
WELLINGTON AVENUE	19	5,305
WESLEY DRIVE	2	424
WESLY DRIVE	1	217
WEST 33 STREET	12	3,507
WEST 44 STREET	12	2,290
WEST 45 STREET	11	2,835
WEST 46 STREET	12	3,728
WEST 48 STREET	23	5,429
WEST 49 STREET	6	1,889
WEST 50 STREET	7	1,962
WEST 52 STREET	11	3,472
WEST 54 STREET	37	8,444
WEST 54TH STREET	2	585
WEST 94 STREET	1	330
WEST RIDGEWOOD DRIVE	56	10,229
WEST RIDGEWOOD RIVE	1	135
WEST RIDGEWOOD ROAD	4	543
WEST SPRAGUE ROAD	3	634
WESTLAKE AVENUE	2	676
WESTMINSTER DRIVE	24	6,222
WEXFORD AVENUE	1	350
WHITAKER DRIVE	10	2,465
WHITEHAVE DRIVE	1	286
WHITEHAVEN DRIVE	6	1,748
WHITTINGTON DRIVE	9	2,462
WILBER AVENUE	8	2,406
WILLIAM CIRCLE	1	216
WINTHROP DRIVE	10	2,154
WOOD AVENUE	15	4,891

Collection System Jet Cleaning - 2013

Parma

STREET	NUMBER OF SEGMENTS	JET FT
WOOD THRUSH DRIVE	12	2,425
WOODLAWN DRIVE	6	1,254
WOODROW AVENUE	11	2,832
WOODWAY AVENUE	10	1,801
WOODWAY DRIVE	5	852
WOOSTER PARKWAY	2	525
YORKSHIRE AVENUE	14	4,134
Grand Total:	1940	488,253

Section A-2

Community Streets Inspected*

* No service provided if section is blank

Collection System TV Inspection - 2013

Parma

STREET	NUMBER OF SEGMENTS	TV FT
ACKLEY ROAD	23	5,935
ALBER AVENUE	23	7,113
ALBERTLY AVENUE	22	6,443
ALDEN DRIVE	10	1,805
ALLANWOOD DRIVE	5	1,446
ARROW LANE	28	4,929
AUGUSTINE DRIVE	23	4,719
AVALON DRIVE	5	836
AVALON EASEMENT	1	160
BELMERE DRIVE	10	2,589
BERESFORD AVENUE	1	315
BERTHA AVENUE	2	623
BISCAYNE BOULEVARD	13	3,120
BOWMEN EASEMENT	2	323
BOWMEN LANE	7	1,631
BROOKDALE AVENUE	1	80
BROOKPARK ROAD	6	539
BROWNFIELD DRIVE	12	3,150
BRUENING DRIVE	4	962
BUCKINGHAM DRIVE	6	1,076
CAMELOT DRIVE	5	1,100
CENTER DRIVE	6	1,877
CHARLES AVENUE	20	5,692
CHESTERFIELD AVENUE	13	3,791
CHESTNUT DRIVE	1	130
CHESTNUT HILLS DRIVE	8	1,606
CLEARVIEW AVENUE	4	1,055
COMMONWEALTH DRIVE	8	2,533
CONCORD DRIVE	9	2,019
CONCROD DRIVE	1	135
COVENTRY DRIVE	16	3,297
COVINGTON AVENUE	4	1,065
DALESIDE AVENUE	6	762
DARTWORTH DRIVE	16	3,856
DAWNESHIRE DIVE	2	569
DAWNESHIRE DRIVE	10	2,390
DEERFIELD DR	1	253
DEERFIELD DRIVE	6	1,862

Collection System TV Inspection - 2013

Parma

STREET	NUMBER OF SEGMENTS	TV FT
DELLWOOD DRIVE	11	2,294
DONCASTER DRIVE	2	436
DOROTHY AVENUE	8	1,955
EAST PARKVIEW DRIVE	4	896
EDGECLIFF DRIVE	5	922
FARNSWORTH DRIVE	9	2,533
FATIMA DRIVE	6	875
FERNHILL AVENUE	1	282
FORDHAM DRIVE	6	812
FOREST HILLS BOULEVARD	4	597
FORESTWOOD DRIVE	36	9,775
FRIAR DRIVE	11	2,885
FRUITLAND DRIVE	18	4,565
GEORGE AVENUE	9	2,548
GETTYSBURG DRIVE	10	1,548
GLAMER DRIVE	27	5,999
GLENN DRIVE	1	170
GOEBEL DRIVE	3	622
GRANT DRIVE	5	967
GRANTWOOD DRIVE	44	10,677
GREENLEAF AVENUE	2	464
GROSS DRIVE	4	913
GUADALUPE DRIVE	7	713
GUADALUPE EASEMENT	2	370
HAMPSTEAD AVENUE	19	5,523
HAVERHILL AVENUE	7	1,599
HERESFORD DRIVE	8	2,001
HETZEL DRIVE	15	3,741
HILLCREST LANE	2	201
HILLSDALE ROAD	4	1,096
HILLTOP DRIVE	17	4,248
HOLBURN ROAD	11	1,993
HOLLYWOOD DRIVE	14	3,018
HOWARD STREET	1	122
INGLESIDE DRIVE	8	2,162
INVANDALE DRIVE	1	355
IVANDALE DRIVE	5	1,435
JANICE DRIVE	2	190

Collection System TV Inspection - 2013

Parma

STREET	NUMBER OF SEGMENTS	TV FT
JEANNE DRIVE	11	3,037
JUDY DRIVE	14	2,442
KELSEY ROAD	6	1,373
KELTONSHIRE ROAD	4	958
KENILWORTH AVENUE	3	628
KENMORE AVENUE	2	524
KENTON AVENUE	8	1,775
KERNEYWOOD ROAD	6	1,337
KLUSNER AVENUE	17	4,483
KRUEGER AVENUE	8	1,479
LAKEVIEW DRIVE	4	319
LANYARD DRIVE	7	1,696
LEE DRIVE	3	467
LIGGETT DRIVE	4	1,262
LINCOLN AVENUE	10	2,047
LIST LANE	6	1,056
LONGWOOD AVENUE	24	6,692
LOURDES DRIVE	7	1,163
LOYOLA DRIVE	4	701
LUCERNE AVENUE	24	6,169
LUCERNE EASEMENT	4	1,261
MANASSAS OVAL	1	227
MANCHESTER ROAD	39	8,253
MANORFORD DRIVE	5	1,394
MAPLE DRIVE	5	1,013
MAPLECREST AVENUE	20	5,000
MARDA DRIVE	13	3,240
MARIONCLIFF DRIVE	9	2,477
MARKO LANE	2	305
MAZEPA TRAIL	7	1,710
MEADOW LANE	4	792
MERKLE AVENUE	4	844
MILFOR DRIVE	2	235
MONMOUTH ROAD	4	792
MONTAUK AVENUE	3	697
MORNINGSIDE DRIVE	7	1,966
NEWCOMB DRIVE	5	1,588
NOBB HILL DRIVE	4	988

Collection System TV Inspection - 2013

Parma

STREET	NUMBER OF SEGMENTS	TV FT
NORMANDY DRIVE	2	363
NORRIS AVENUE	9	2,459
NORTH CANTERBURY ROAD	9	1,897
NOTTINGHAM DRIVE	9	2,369
OAKLAWN DRIVE	2	241
ORCHARD AVENUE	6	2,031
ORCHARD PARK DRIVE	6	1,264
OXFORD DRIVE	3	974
PARKHAVEN DRIVE	9	2,546
PARKHAVEN EASEMENT	1	185
PARKLAND DRIVE	2	506
PARKLANE DRIVE	7	1,971
PARMENTER DRIVE	4	1,236
PEARL ROAD	1	10
PELHAM DR	1	16
PELHAM DRIVE	12	3,247
PERSHING AVENUE	4	781
PRISCILLA AVENUE	8	1,875
RAVENSWOOD DRIVE	2	227
RAVINE BOULEVARD	2	280
REDFERN ROAD	29	5,612
REGENCY DRIVE	17	3,305
RENWOOD DRIVE	26	6,310
RIDGEWOOD LAKES DRIVE	8	1,099
RIESTER STREET	1	320
ROBERT DRIVE	1	151
ROBERT STREET	1	8
ROBINHOOD DRIVE	4	1,088
ROSESIDE AVENUE	2	27
ROYCROFT DRIVE	4	977
RUSSELL AVENUE	2	612
SAGAMORE ROAD	3	861
SALISBURY DRIVE	5	1,046
SHENANDOAH OVAL	1	213
SHERATON DRIVE	18	3,906
SHERIDAN DRIVE	4	1,115
SHERMAN DRIVE	5	1,177
SHERWOOD DRIVE	7	1,585

Collection System TV Inspection - 2013

Parma

STREET	NUMBER OF SEGMENTS	TV FT
SHILOH CIRCLE	2	375
SKYLARK DRIVE	1	249
SNOW ROAD	6	519
SOMIA DRIVE	12	2,343
SOUTH CANTERBURY ROAD	8	1,970
SOUTH PARK BOUEVARD	1	330
SOUTH PARK BOULEVARD	49	9,329
SOUTHINGTON DRIVE	18	4,924
SPRING GARDEN ROAD	7	1,919
ST PETERSBURG DRIVE	2	148
STANBURY ROAD	6	1,410
STANDISH AVENUE	6	1,491
STANFIELD DRIVE	26	7,048
STATE ROAD	16	3,825
STORMES DRIVE	13	3,156
STRATFORD AVENUE	2	716
STRATFORD DRIVE	1	216
STRATFORD ROAD	1	234
SUNDERLAND DRIVE	14	4,051
THEOTA AVENUE	24	5,621
THOETA AVENUE	2	397
THORNCLIFFE BOULEVARD	15	2,257
THORNTON DRIVE	22	4,654
THORTON DRIVE	2	512
TORRINGTON AVENUE	12	2,747
TUXEDO AVENUE	6	1,230
TWIN LAKES DRIVE	7	1,601
VELMA AVENUE	3	842
VICKSBURG DRIVE	8	1,729
VINEWOOD DRIVE	2	475
W RIDGEWOOD DRIVE	1	182
W RIDGEWOOD DRVIE	1	149
WAINSTEAD DRIVE	5	1,482
WAKE ROBIN DRIVE	2	225
WALES AVENUE	7	2,047
WAREHAM DRIVE	5	1,134
WARWICK DRIVE	1	393
WELLINGTON AVENUE	27	7,641

Collection System TV Inspection - 2013

Parma

STREET	NUMBER OF SEGMENTS	TV FT
WESLEY DRIVE	1	214
WESLY DRIVE	1	218
WEST 33 STREET	14	4,198
WEST 44 STREET	5	1,120
WEST 45 STREET	5	1,211
WEST 46 STREET	7	1,877
WEST 46TH STREET	7	1,587
WEST 48TH STREET	2	144
WEST 49 STREET	3	930
WEST 49TH STREET	2	218
WEST 50 STREET	5	1,131
WEST 50TH STREET	2	532
WEST 52 STREET	9	2,846
WEST 52ND STREET	3	945
WEST 94 STREET	1	302
WEST LIST LANE	1	242
WEST RIDGEWOOD AVENUE	1	46
WEST RIDGEWOOD DRIVE	41	8,352
WEST RIDGEWOOD ROAD	3	325
WEST SPRAGUE ROAD	7	1,060
WESTMINSTER DRIVE	27	6,662
WHITAKER DRIVE	7	1,514
WHITEHAVE DRIVE	1	262
WHITEHAVEN DRIVE	4	1,175
WHITTINGTON DRIVE	11	2,904
WILBER AVENUE	20	8,960
WINTHROP DRIVE	9	1,837
WOOD AVENUE	7	1,956
WOODLAWN DRIVE	4	822
WOODROW AVENUE	12	2,764
WOODWAY AVENUE	9	1,523
YORKSHIRE AVENUE	23	5,545
Grand Total:	1833	432,561

Section A-3

Projects Status*

* No service provided if section is blank

CCSE PROJECT REVIEWS

<i>Project Id</i>	<i>Project Name</i>	<i>Project Begin</i>	<i>Municipality</i>	<i>Approved</i>
13-004	BROADVIEW RD. (S.R.-176)	6-Feb-13	PARMA	NO
13-007	AXELROD BUICK GMC RENOVATION & ADDITION	19-Feb-13	PARMA	YES
13-008	SPEEDWAY-PARMA	5-Mar-13	PARMA	YES
13-020	W. SPRAGUE RD. PUMP STATION	5-Jun-13	PARMA	NO
13-021	GM POWERTRAIN SAN. CONN.	6-Jun-13	PARMA	YES
13-025	Tuxedo Ave. Water Main Replacemt. (W. 54th - State	18-Jun-13	PARMA	NO
13-026	THE SHOPPES AT PARMA, OUTLOT 7	20-Jun-13	PARMA	NO
13-029	SENIOR HOUSING HUFFMAN RD	8-Jul-13	PARMA	YES
13-039	POLICE & FIRE TRAINING FACILITY	1-Aug-13	PARMA	YES
13-040	CHASE BANK	1-Aug-13	PARMA	YES
13-043	TASTE OF EUROPA & NORTH COAST PIZZA	13-Aug-13	PARMA	NO
13-044	A TOUCH OF CLASS AUTO BODY	14-Aug-13	PARMA	NO
13-045	CUY-NORTH CHURCH DRIVED	19-Aug-13	PARMA	NO
13-047	INDEPENDENCE REHAB, INC	27-Aug-13	PARMA	NO
13-055	TACO BELL	23-Sep-13	PARMA	YES
13-058	PIZZA HUT	17-Oct-13	PARMA	YES
13-060	DUNKIN DONUTS	2-Oct-13	PARMA	YES
13-074	BAGLEY-PLEASANT VALLEY WIDENING PROJECT	30-Dec-13	PARMA	NO
13-075	SPRAGUE RD WIDENING PROJECT	30-Dec-13	PARMA	NO

Section A-4

Service Program*

* No service provided if section is blank

City of Parma

<u>Type</u>	<u>Community Total</u>
Sanitary Sewers	1,224,399 Feet
Manholes	5,237 (Approximately)

2013 Service Program

<u>Program</u>	<u>2013 Activity</u>
1) High Pressure Cleaning*	488,253 Feet
2) House Service	2,682 Calls
3) Television Inspection*	432,561 Feet
4) Construction Activities	798 Job(s)
5) Smoke and Dye Testing	29 Test(s)
6) Construction Permits Issued (Commercial)	9
(Residential)	85
7) Plan Review	19 Plan(s)
8) Capital Projects	18,258 Feet (Sewer Lines Inspected)

*Information includes footages for sanitary (collection system) and storm sewers.

Section A-5

Community Operating Expenses

City of Parma
2013 Operating Expenses

<u>Activity</u>	<u>Cost</u>
1. Maintenance of Sanitary Sewerage Systems	\$2,707,618
2. Pump Station Operation and Maintenance	\$43,914
3. Waste Water Treatment Plant Maintenance	\$ 0
4. Engineering and/or Inspection	\$548,155
5. Capital Expenses (See Section A-6 if any)	\$914,603
6. Sanitary Overhead	\$ 0
 Total Expenses:	 \$4,214,290

Section A-6

Community Capital Expenses

* No service provided if section is blank

City of Parma

2013 Capital Expenses

Sewer Repair/ Manhole Rehab. Loan	\$	52,570
Bruening Road Lateral Repair	\$	10,099
Grantwood Lateral Repair	\$	14,925
Infrastructure Maintenance	\$	92,582
Sewer Lining	\$	102,854
Fernhill Loan Payment	\$	51,175
Glamar Lateral Repair	\$	44,817
Brian/Nelson Lateral Repair	\$	77,239
West Creek Lateral Repair	\$	33,425
Ames Lateral Repair	\$	11,020
Columbia Gas Reimbursement - Snow Road	\$	936
Records/ Reporting	\$	552
Edgehill Lateral Repair	\$	15,711
List Lane Repair	\$	65,064
Theota Lateral Repair	\$	47,343
Sprague Road Lateral Repair	\$	8,396
West Ridgewood Lateral Repair	\$	52,334
Broadview Lateral Repair	\$	7,485
Stary Lateral Repair	\$	16,708
Snow Road Lateral Repair	\$	196,835
W. 78 th Lateral Repair	\$	6,400
Bavaria Lateral Repair	\$	6,133

Total Capital Expenses: **\$914,603**

CONTACT INFORMATION

Address

Cuyahoga County Department of Public Works
 6100 West Canal Road
 Valley View, OH 44125
 Email: Publicworks@cuyahogacounty.us
 Website: Publicworks.cuyahogacounty.us

Bonita G. Teeuwen, P.E..... Director of Public Works
 David E. Marquard, P.E.,P.S. Design & Construction Administrator
 Michael W. Dever, MPA.....Maintenance Administrator
 Michael W. Chambers, CPAFiscal Officer
 Bryan J. Hitch..... Maintenance Superintendent

<i>Dispatch Office</i> (216) 443-8201	<i>Dispatch Email</i> PWDDispatch@cuyahogacounty.us
<i>Administration</i> (216) 443-8215	<i>Inspection & Permits</i> (216) 443-8211
<i>Engineering</i> Hugh Blocksidge, P.E., Chief Engineer (216) 443-8205	<i>Sewer Maintenance</i> Gary Green, Senior Supervisor (216) 443-8225
<i>Lateral Services (House Crews)</i> John Gribble, Supervisor (216) 443-8227	<i>Inflow & Infiltration</i> Suzanne Britt, Supervisor (216) 443-3533
<i>Construction</i> Mitch Holt, Supervisor (216) 443-8229	<i>Televised Inspection</i> Todd Swindell, Supervisor (216) 443-8224
<i>Sewer Jetting</i> Guy Swindell, Supervisor (216) 443-8226	<i>Pump Station Operations</i> William Applegarth, Supervisor (216) 443-8295