



2011 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, 2012

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 2011 Annual Report for the Cuyahoga County Department of Public Works Sanitary Service. This report contains a detailed overview of the components that bring together the agency, information on 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.

This year has been a dynamic one for Cuyahoga County. We have implemented many changes to better our department and this can be felt by the communities we service. We are continuously striving to incorporate best practices into the way we perform each day, and I am confident that this agency has the tools to offer you the highest level of both customer service and innovative technologies. The Charter's creation of the Department of Public Works has afforded us the ability to utilize a larger and more diverse work force, and thus be able to better dispatch staff to your community during high-volume rain events. It is our obligation to provide the most effective level of water pollution control possible.

Our joined efforts here are key to promoting regionalism and play an integral role in the further development of this region. It is my honor to serve your community and to continue to diligently meet the varying needs of all of Cuyahoga County.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Bonita G. Teeuwen", is written over a horizontal line.

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

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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.”



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 2011, 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 33 communities and maintains nearly 1,200 miles of sanitary sewers, treats millions of gallons of wastewater, operates 46 sewage-pumping stations, and maintains 3 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.

- 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

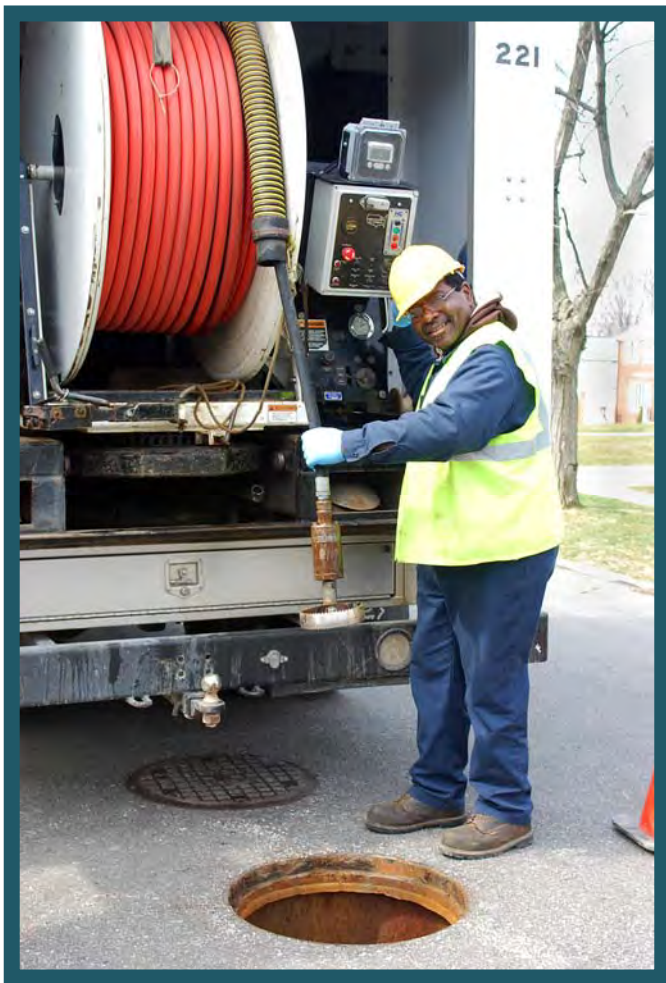
SUMMARY OF SERVICE DELIVERY

- 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-three 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 33 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 3 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 46 pumping stations throughout the 33 service communities. A Supervisory Control and Data Acquisition (SCADA) system monitors 36 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, and improvement recommendations are set forth by such agency based on these items, as well.

The United States EPA contacted our agency in July of 2009 to meet with 14 communities concerning the status of sanitary sewer overflows (SSO's). To date, 16 communities within our county lines have been approved by the EPA, with 8 others awaiting approval. In an attempt to become more proactive in the prevention of SSO's, this agency has taken a stance to further train the staff and enforce this program.



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 2011 the IT Section installed an image server to store TV inspection videos, photos, permits and engineering drawings for rapid retrieval. The IT Section also initiated field-testing of the new Work-order Management System; installed a wireless network with wi-fi adapters in our TV Inspection vehicles to aid in the downloading of inspection data; and began scanning the archive of paper records from our TV Inspection and Lateral Services Department.



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 2011. 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 CD 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.



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Section A-1

Community Streets Cleaned*

* No service provided if section is blank

Collection System Jet Cleaning - 2011

Parma

STREET	NUMBER OF SEGMENTS	JET FT
AARON DRIVE	10	1,829
ABRAHAM AVE	2	499
ABRAHAM DRIVE	2	499
ALLANWOOD DRIVE	3	993
AMBER LANE	2	401
AMES ROAD	16	3,085
ANN ARBOR DRIVE	20	4,411
APOLLO DRIVE	1	188
ARBOR DRIVE	8	1,664
ARCADIA DRIVE	13	1,749
ASPEN CIRCLE	1	156
BANNER LANE	9	1,308
BARON DRIVE	3	785
BARTON CIRCLE	5	960
BARTON HILL DRIVE	15	2,933
BELMERE DRIVE	10	2,712
BERESFORD AVENUE	4	0
BIG CREEK PARKWAY	7	1,094
BISCAYNE BOULEVARD	9	1,818
BISCAYNE DRIVE	1	311
BOBKO BOULEVARD	8	2,352
BOUNDARY	1	268
BOUNDARY LANE	14	3,430
BOUNDARY ROAD	2	698
BRADLEY AVENUE	16	3,952
BROOKDALE AVENUE	1	278
BROOKPARK ROAD	1	186
CAMBRIDGE DRIVE	3	65
CAMELOT DRIVE	5	1,107
CASCADE COURT	1	154
CECELIA DRIVE	1	301
CHATEAU DRIVE	5	1,255
CHEVROLET BOULEVARD	3	400
CIRCLEVIEW DRIVE	2	251
CONCORD DRIVE	16	4,350
CONCROD DRIVE	2	600
COTTONWOOD LANE	1	305
COVINGTON AVENUE	2	487

Collection System Jet Cleaning - 2011

Parma

STREET	NUMBER OF SEGMENTS	JET FT
DAIVD AVE	1	191
DARTWORTH DRIVE	7	1,803
DAVID AVE	4	588
DAVID AVENUE	5	1,378
DAVID DRIVE	2	330
DAWN HAVEN DRIVE	5	1,026
DAY DRIVE	3	310
DEBBY DRIVE	4	825
DEBORAH DRIVE	3	700
DEER RUN TRAIL	1	200
DELL HAVEN DRIVE	7	1,188
DENTLER	1	92
DENTLER ROAD	6	1,584
DENTZLER ROAD	13	2,757
DOGWOOD LANE	12	2,182
DOVER LANE	7	1,421
EAST LINDEN LANE	13	3,079
EDGECLIFF DRIVE	3	1,072
EDGECLIFF EASEMENT	4	800
ESSEN AVENUE	2	651
EVANS DRIVE	1	125
FENWAY DRIVE	19	3,644
FERNHILL AVENUE	3	862
FERNHILLE AVENUE	1	128
FORTUNE AVENUE	6	1,702
FOX HOLLOW DRIVE	1	300
GABRIELLA DRIVE	11	2,699
GILBERT AVENUE	2	526
GLAMER DRIVE	6	907
GLENN OVAL DRIVE	4	1,082
GORDON DRIVE	7	1,412
GRANTWOOD DRIVE	2	272
GREEN ACRES DRIVE	16	3,162
GROSS DRIVE	10	2,700
GROVEWOOD AVENUE	1	300
HACIENDA DRIVE	3	755
HAROLD DRIVE	2	240
HARWOOD DRIVE	2	355

Collection System Jet Cleaning - 2011

Parma

STREET	NUMBER OF SEGMENTS	JET FT
HEARTHSTONE ROAD	1	300
HICKORY HILL LANE	1	352
HIDDEN VALLEY CIRCLE	2	306
HIDDEN VALLEY LANE	5	821
HIGHVIEW DRIVE	2	436
HOLLENBECK CIRCLE	1	311
HOLLENBECK EASEMENT	1	200
HOWARD STREET	2	518
IME-11 EASEMENT	4	1,418
INGLESIDE DRIVE	2	303
JACQUELINE DRIVE	9	2,047
JAMESON ROAD	1	299
JANICE DRIVE	2	257
JEANNE DRIVE	3	856
JENNIFER DRIVE	6	742
JILL DRIVE	2	406
JO ANN DRIVE	10	1,549
JOHNSON DRIVE	12	3,123
JOYCE DRIVE	2	359
JUDY DRIVE	9	1,453
KADER DRIVE	17	2,982
KENMORE AVENUE	2	600
KENYON DRIVE	4	981
KEY WEST DRIVE	1	250
KOCH DRIVE	1	404
LAKEVIEW DRIVE	12	1,811
LANYARD DRIVE	1	300
LASSITER DRIVE	1	161
LAURENT DRIVE	1	226
LAVERNE AVENUE	1	285
LIDO COURT	2	374
LIGGETT DRIVE	1	293
LIME LANE	7	914
LINCOLN AVENUE	3	825
LIST LANE	3	986
LYNETT DRIVE	1	267
MALIBU DRIVE	7	1,430
MALVERN DRIVE	1	240

Collection System Jet Cleaning - 2011

Parma

STREET	NUMBER OF SEGMENTS	JET FT
MAPECREST AVENUE	1	217
MAPLECREST AVENUE	9	2,737
MAPLEWOOD ROAD	1	238
MAYBERRY DRIVE	7	1,740
MEADOW LANE	1	292
MILFORD AVENUE	2	564
MILLERWOOD LANE	1	275
MOORE DRIVE	5	1,198
MUNICH DRIVE	15	3,202
NASSAU DRIVE	9	1,331
NEIL DRIVE	1	156
NEIL EASEMENT	1	252
NELSON BOULEVARD	1	366
NELSON DRIVE	5	908
NEWCOMB DRIVE	7	2,302
NOBB HILL DRIVE	4	1,012
NORTH AVENUE	1	283
NORTH AVENUE	3	844
NORTH CANTERBURY ROAD	1	291
NOTTINGHAM DRIVE	1	300
ONAWAY OVAL	1	143
ORCHARD AVENUE	17	5,799
ORCHARDVIEW ROAD	2	541
PARKSIDE DRIVE	1	243
PEARL ROAD	1	300
PELHAM DRIVE	2	294
PERSHING AVENUE	7	2,231
PIN OAK LANE	7	781
PIN OAKS LANE	1	236
PINEHURST DRIVE	3	642
PLEASANT HILL DRIVE	7	1,500
PLEASANT LAKE BOULEVARD	18	3,131
PLEASANT LAKE ROAD	1	128
PLEASANT VALLEY ROAD	5	1,274
RAVENSWOOD DRIVE	8	1,561
REGAL DRIVE	4	1,097
REGENCY DRIVE	3	567
REICHERT ROAD	12	2,205

Collection System Jet Cleaning - 2011

Parma

STREET	NUMBER OF SEGMENTS	JET FT
RICHARD DRIVE	2	650
RIDGE EASEMENT	6	1,422
RIDGE ROAD	11	2,243
RIDGEWOOD AVENUE	9	2,143
RIVEREDGE DRIVE	1	340
ROBERT STREET	4	816
ROMILLY OVAL	4	670
RONALD DRIVE	2	435
ROUSSEAU DRIVE	3	457
ROYAL RIDGE DRIVE	12	3,138
ROYALVIEW DRIVE	12	2,730
RUHR DRIVE	1	268
RUNNING BROOK DRIVE	8	2,131
RUNNING BROOK DRIVE	1	224
RUSSELL AVENUE	2	522
SANDY HOOK DRIVE	1	311
SAPPHIRE COURT	3	751
SASSAFRAS DRIVE	4	239
SCARLET OAK LANE	10	1,823
SELWICK DRIVE	21	4,938
SEMRA CIRCLE	1	315
SHARON DRIVE	13	2,565
SIERRA OVAL	7	1,354
SKYLARK DRIVE	6	1,016
SLEEPY HOLLOW DRIVE	7	1,575
SNOW ROAD	5	1,341
SOUTH CANTERBURY ROAD	1	223
SOUTH LAKE BOULEVARD	6	639
STARY DRIVE	16	3,905
STATE ROAD	2	342
STORMES DRIVE	6	1,590
SUNHAVEN OVAL	4	779
TERRACE COURT	5	771
THEOTA AVENUE	3	706
THOREAU DRIVE	1	300
THORNCLIFFE BOULEVARD	2	446
THORNTON DRIVE	2	631
TRACY TRAIL	14	2,765

Collection System Jet Cleaning - 2011

Parma

STREET	NUMBER OF SEGMENTS	JET FT
TREVOR LANE	10	1,824
TROY OVAL	3	463
TUXEDO AVENUE	2	583
TWIN LAKES DRIVE	2	411
VALLEY LANE	2	269
VALLEY VILLAS	1	83
VALLEY VILLAS DRIVE	7	1,736
VIENNA DRIVE	12	3,252
VISTA LANE	2	321
WAKE ROBIN	2	673
WAKE ROBIN DRIVE	7	1,342
WARD ROAD	1	188
WELLINGTON AVENUE	7	233
WENDY DRIVE	3	618
WEST 10 STREET	1	371
WEST 130TH STREET	1	0
WEST 24 STREET	2	323
WEST 33 STREET	2	550
WEST 33RD STREET	1	95
WEST 48 STREET	2	443
WEST 67 STREET	4	1,392
WEST 76 STREET	1	145
WEST LIST LANE	6	1,367
WEST PLEASANT VALLEY ROAD	1	75
WESTLAKE AVENUE	5	1,615
WESTMINSTER DRIVE	13	2,498
WEXFORD AVENUE	5	810
WHIPPOORWILL LANE	10	1,848
WHITAKER DRIVE	4	978
WINTERPARK DRIVE	10	2,156
WINTHROP DRIVE	1	40
WOODWAY AVENUE	1	181
WOOSTER PARKWAY	1	326
YORK ROAD	3	735
YORKSHIRE AVENUE	7	225
ZONA LANE	9	1,531
Grand Total:	1113	238,962

Section A-2

Community Streets Inspected*

* No service provided if section is blank

Collection System TV Inspection - 2011

Parma

STREET	NUMBER OF SEGMENTS	TV FT
AARON DRIVE	8	1,360
AARON ROAD	1	295
ABRAHAM AVE	2	500
ALEXANDER ROAD	8	1,136
AMBER LANE	2	445
ANTOINETTE DRIVE	1	185
AUGUSTINE DRIVE	1	301
BANNER LANE	5	1,013
BARON DRIVE	2	510
BARTON HILL DRIVE	5	1,205
BOBKO BOULEVARD	8	2,200
BOUNDARY	2	275
BOUNDARY LANE	6	1,138
BOUNDARY ROAD	1	28
BRADLEY AVENUE	16	4,493
BRIAN DRIVE	3	618
BROOKPARK ROAD	1	75
CAMBRIDGE DRIVE	2	303
CASCADE COURT	1	155
CENTER DRIVE	1	373
CHATEAU DRIVE	4	983
CHIPPEWA	1	20
CIRCLEVIEW DRIVE	2	250
CONCORD DRIVE	12	2,582
CONCROD DRIVE	2	271
DAVID AVE	1	50
DAVID AVENUE	1	295
DAVID AVE	4	596
DAVID AVENUE	2	546
DAVID DRIVE	1	145
DAWN HAVEN DRIVE	8	1,478
DAWN VISTA OVAL	2	390
DEBORAH AVENUE	1	285
DEBORAH DRIVE	7	1,480
DOGWOOD LANE	16	2,959
EAST PARKVIEW DRIVE	3	677
EDGECLIFF DRIVE	3	675
EDGECLIFF EASEMENT	1	157

Collection System TV Inspection - 2011

Parma

STREET	NUMBER OF SEGMENTS	TV FT
ELY VISTA DRIVE	8	1,846
ESSEN AVENUE	1	328
EVENTIDE DRIVE	3	1,166
EVERGREEN	4	77
FATIMA DRIVE	5	599
FENWAY DRIVE	7	1,281
FERNHILL	4	625
FERNHILL AVENUE	1	235
FORTUNE AVE	11	2,671
FORTUNE AVENUE	1	299
FOX HOLLOW DRIVE	2	619
FRIAR DRIVE	11	2,975
GABRIELLA AVENUE	1	298
GABRIELLA DRIVE	6	1,181
GERALD AVENUE	3	1,066
GETTYSBURG DRIVE	5	980
GLENN OVAL DRIVE	4	1,028
GORDON DRIVE	7	1,208
GRANT DRIVE	5	1,172
GRANTWOOD DRIVE	4	579
GREEN ACRES DRIVE	10	1,634
GUADALUPE DRIVE	2	565
GUADALUPE EASEMENT	2	551
HACIENDA	1	250
HACIENDA DRIVE	3	745
JACQUELINE DRIVE	9	2,023
JANICE DRIVE	2	192
JILL DRIVE	2	427
JO ANN DRIVE	4	690
JOHNSON DRIVE	11	3,187
JUDY DRIVE	8	1,559
KADER DRIVE	22	4,681
KENNETH AVENUE	6	1,700
KENYON DRIVE	5	1,526
KEYSTONE ROAD	6	1,325
LAVERNE AVENUE	2	436
LEE DRIVE	1	265
LIGGETT DRIVE	1	293

Collection System TV Inspection - 2011

Parma

STREET	NUMBER OF SEGMENTS	TV FT
LINCOLN AVENUE	4	1,045
LORIMER DRIVE	4	1,281
LOURDES DRIVE	6	1,002
LUELDA AVENUE	1	56
MALVERN DRIVE	3	623
MAPLE CREST	1	225
MAPLECREST	10	2,323
MAPLECREST AVENUE	13	3,741
MAPLEWOOD ROAD	3	712
MEADOW LANE	5	1,265
MILFORD AVENUE	2	334
MUNICH DRIVE	7	1,852
NASSAU DRIVE	8	1,551
NELSON BOULEVARD	1	307
NELSON DRIVE	2	345
NEWCOMB DRIVE	7	2,335
NIGHT VISTA DRIVE	3	789
NOBB HILL DRIVE	5	1,035
NORTH AVENUE	3	140
NOTTINGHAM DRIVE	3	911
OAKWOOD ROAD	1	222
ORCHARD AVENUE	20	6,750
PARK DRIVE	24	5,400
PARKVIEW EASEMENT	3	213
PIN OAK LANE	5	495
PINEHURST	4	670
PLEASANT LAKE BOULEVARD	11	1,872
PLEASANT LAKE ROAD	1	64
PLEASANT VALLEY	17	5,372
PLEASANT VALLEY ROAD	3	569
RENWOOD DRIVE	1	172
RICHARD DRIVE	6	1,292
RIDGEFIELD AVENUE	1	50
RIDGEWOOD AVENUE	13	3,168
ROEDEAN DRIVE	3	685
ROMILLY OVAL	2	372
ROUSSEAU	2	249
ROYAL RIDGE DRIVE	12	2,139

Collection System TV Inspection - 2011

Parma

STREET	NUMBER OF SEGMENTS	TV FT
RUNNING BROOK	2	330
RUNNING BROOK DRIVE	6	1,369
RUNNING BROOK DRIVE	1	240
SELWICK DRIVE	4	867
SHARON DRIVE	9	1,700
SHERIDAN DRIVE	4	1,107
SHERMAN DRIVE	6	1,479
SHERWOOD DRIVE	2	443
SKYLARK DRIVE	10	2,315
SNOW ROAD	18	3,882
SOUTH GREEN ROAD	1	300
SOUTH TAMARACK	3	807
SPRAGUE ROAD	1	107
STARY DRIVE	11	2,545
STATE ROAD	2	706
STORMES DRIVE	10	2,706
SUN VISTA DRIVE	2	630
THEOTA AVENUE	15	3,720
THORNCLIFF	1	92
THORNCLIFFE BOULEVARD	7	881
THORNCLIFFE BOULEVARD	1	130
TRACY TRAIL	10	1,310
TREVOR LANE	5	893
VALLEY VILLAS DRIVE	3	685
VIENNA DRIVE	12	3,384
W 16TH	1	334
W PLEASANT VALLEY	1	76
WAKE ROBIN	2	640
WELLINGTON AVENUE	3	539
WEST 130 STREET	2	203
WEST 130TH STREET	8	1,461
WEST 49 STREET	1	357
WEST 67 STREET	6	1,655
WEST PARKVIEW DRIVE	5	545
WEST PLEASANT VALLEY ROAD	1	307
WEST RIDGEWOOD	1	241
WEST RIDGEWOOD DRIVE	1	153
WESTLAKE AVENUE	6	1,881

Collection System TV Inspection - 2011

Parma

STREET	NUMBER OF SEGMENTS	TV FT
WESTMINSTER	4	729
WESTMINSTER DRIVE	4	858
WEXFORD	3	239
WEXFORD AVENUE	5	929
WHITAKER DRIVE	7	1,989
WINTERPARK DRIVE	4	935
WINTHROP DRIVE	4	751
YORK ROAD	4	658
Grand Total:	776	172,463

Section A-3

Projects Status*

* No service provided if section is blank

CCSE PROJECT REVIEWS

MUNICIPALITY PARMA

PROJECT 11-001 SNOW RD/ROCKSIDE RD RESURFACING

STAGE 1 SNOW RD/ROCKSIDE RD/RESURFACING

Review Date	Approved	Revise	Comments
20-JAN-11	N	N	STAGE SUBMITTED
20-JAN-11	N	N	THIS DATE ONE SET PLANS RECEIVED FROM R. SAKR - LOGGED IN AND HANDED OFF TO J. KUSNER PER W. SCHNEIDER

PROJECT 11-002 SHEETZ STORE

STAGE 1 SHEETZ STORE

Review Date	Approved	Revise	Comments
26-JAN-11	N	N	THIS DATE RECEIVED SIX SETS PLANS, ONE INTERNAL VIDEO INSPECTION REPORT, AND ONE INTERNAL VIDEO INSPECTION DVD - LOGGED IN AND TO T. ATHERTON
26-JAN-11	N	N	STAGE SUBMITTED

PROJECT 11-005 AMENITY CENTER PARMATOWN APT - THE TOWERS

STAGE 1 AMENITY CENTER

Review Date	Approved	Revise	Comments
25-FEB-11	N	N	STAGE SUBMITTED
25-FEB-11	N	N	PLANS GIVEN TO T. ATHERTON (6 SETS) gaw
18-MAR-11	N	N	THIS DATE SIX COPIES OF SHEET NUMBER C400, WHICH IS AMENDED FROM ORIGINAL PLANS - TO W. SCHNEIDER

PROJECT 11-010 CUY-SNOW RD. IMPROV. (CR 87)

STAGE 1 CUY-SNOW RD. IMPROV. (CR 87)

Review Date	Approved	Revise	Comments
21-MAR-11	N	N	THIS DATE ONE SET PLANS RECEIVED VIA DELIVERY - LOGGED IN AND TO S. TOTH PER W. SCHNEIDER
21-MAR-11	N	N	STAGE SUBMITTED

PROJECT 11-011 THE HIVE 5326 STATE ROAD PARMA

STAGE 1 THE HIVE 5326 STATE ROAD PARMA

Review Date	Approved	Revise	Comments
23-MAR-11	N	N	STAGE SUBMITTED
23-MAR-11	N	N	THIS DATE SIX SETS RECEIVED - LOGGED IN AND TO W. SCHNEIDER
01-APR-11	Y	N	PLANS APPROVED 3/31/2011 - TWO SETS FOR ENGINEER HELD AT OFFICE UNTIL ENGINEER OR CONTRACTOR ADVISES WHERE TO SEND

PROJECT 11-037 ST. BRIDGETS BUILDING ADDITION**STAGE 1 ST. BRIDGETS BUILDING ADDITION**

Review Date	Approved	Revise	Comments
28-JUL-11	N	N	THREE SETS PLANS LOGGED IN THIS DATE - TO J. KLINE PER W. SCHNEIDER
28-JUL-11	N	N	STAGE SUBMITTED
06-SEP-11	N	N	THIS DATE SIX (6) SETS REVISED PLANS RECEIVED - LOGGED IN AND TO J. KLINE - PLUS SIX (6) SETS PLUMBING PLANS
08-SEP-11	Y	N	THIS DATE SIX (6) SETS PLANS APPROVED BY W.S. - SIX (6) SETS PLUMBING PLANS ATTACHED TO BACK OF EACH SET OF PLANS PER J. KLINE - ALSO MAILED TWO COMPLETE SETS TO SUSAN HAMILTON AT HOVANCSEK AND ASSOCIATES, TWO MERIT DRIVE, RICHMOND HEIGHTS, OHIO 44143

PROJECT 11-052 METROPARKS WESTCREEK RESERVATION**STAGE 1 METROPARKS WEST CREEK RESERVATION**

Review Date	Approved	Revise	Comments
23-NOV-11	N	N	ON NOVEMBER 22, 2011 JOHN CALDWELL (NO PHONE NUMBER) FROM CLEVELAND METROPARKS DROPPED OFF SIX (6) SETS PLANS - ONE LARGE AND FIVE MUCH SMALLER - ALSO SIGNED AN INSPECTION AGREEMENT AND PURCHASED A PERMIT - WILL RETURN NEXT WEEK WITH ANOTHER CHECK FOR INSPECTION FEES. AFTER LOGGING IN, ALL PLANS GO TO W. SCHNEIDER PER HIS REQUEST.
23-NOV-11	N	N	STAGE SUBMITTED

PROJECT 11-054 CUY-17-8.38 (BROOKPARK ROAD)CITY OF PARMA/BROOKLYN**STAGE 1 CUY-17-8.38 (BROOKPARK ROAD)CITY OF PARMA/BROOKLYN**

Review Date	Approved	Revise	Comments
29-DEC-11	N	N	STAGE SUBMITTED
29-DEC-11	N	N	THIS DATE PROJECT OPENED WITH ONE (1) SET HAND-DELIVERED PLANS TO NCB FROM STEVE TOTH - WHO RECEIVED THEM VIA E-MAIL. SINGLE SET PLANS LOGGED IN AND BACK TO TOTH.
04-JAN-12	N	N	THIS DATE ONE (1) SET PLANS RECEIVED - LOGGED IN AND TO S. TOTH
05-JAN-12	N	N	THIS DATE SIX (6) ADDITIONAL SETS RECEIVED - LOGGED IN AND TO S. TOTH

Section A-4

Service Program*

* No service provided if section is blank

City of Parma

<u>Type</u>	<u>Community Total</u>
Sanitary Sewers	1,205,909 Feet
Manholes	5,156 (Approximately)

2011 Service Program

<u>Program</u>	<u>2011 Activity</u>
1) High Pressure Cleaning*	238,962 Feet
2) House Service	3,141 Calls
3) Television Inspection*	172,463 Feet
4) Construction Activities	601 Job(s)
5) Smoke and Dye Testing	18 Test(s)
6) Construction Permits Issued	
(Commercial)	9
(Residential)	209
7) Plan Review	8 Plan(s)
8) Capital Projects	7,625 Feet (New Sewer Lines Inspected)

*Information includes footages for sanitary and storm sewers.

Section A-5

Community Operating Expenses

City of Parma
2011 Operating Expenses

<u>Activity</u>	<u>Cost</u>
1. Maintenance of Sanitary Sewerage Systems	\$2,026,065
2. Pump Station Operation and Maintenance	\$42,081
3. Waste Water Treatment Plant Maintenance	\$ 0
4. Engineering and/or Inspection	\$575,635
5. Capital Expenses (See Section A-6 if any)	\$630,900
6. Sanitary Overhead	\$26,265
 Total Expenses:	 \$3,300,946

Section A-6

Community Capital Expenses

* No service provided if section is blank

City of Parma

2011 Capital Expenses

Coventry Driveway Repair	\$ 2,038
West 54 th Street Gas Line Repair	\$ 1,505
Infrastructure Maintenance	\$ 139,621
OWDA Fee (Sewer Lining)	\$ 5,513
Center Road Repair	\$ 325
Wellington/Yorkshire Sanitary Repair	\$ 158,809
OWDA Fee (Fernhill)	\$ 5,653
Edgecliff Drive Lateral Repair	\$ 32,766
Stumph Road Sanitary Repair	\$ 63,002
Meadow Lane Lateral Repair	\$ 10,788
Ridge Road Lateral Repair	\$ 5,145
Keystone Road Lateral Repair	\$ 18,054
Grantwood Drive Lateral Repair	\$ 13,467
Wellington Avenue Lateral Repair	\$ 27,116
Winthrop Drive Lateral Repair	\$ 35,770
State Road Lateral Repair	\$ 26,713
Deerfield Drive Lateral Repair	\$ 7,257
Manhattan Avenue Storm & Water Reimbursement	\$ 71,713
Park/Jourdeen Lateral Repair	\$ 5,655

Total Capital Expenses: **\$ 630,900**

CONTACT INFORMATION

Address

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Valley View, OH 44125
Email: Publicworks@cuyahogacounty.us
Website: Publicworks.cuyahogacounty.us

Bonita G. Teeuwen, P.E..... Director of Public Works
Douglas L. Dillon, P.E., P.S. Design & Construction Administrator
Michael W. Dever, MPA.....Maintenance Administrator
Michael W. Chambers, CPAFiscal Officer
Bryan J. Hitch..... Sewer Maintenance Administrator

<i>Dispatch Office</i> (216) 443-8201	<i>Dispatch Email</i> PWDispatch@cuyahogacounty.us
<i>Administration</i> (216) 443-8215	<i>Inspection & Permits</i> (216) 443-8211
<i>Engineering</i> William Schneider, 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) 443-8233