



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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IN REPLY PLEASE
REFER TO FILE: **SM-0**

August 27, 2008

Ms. Marlene Miyoshi, Director of Public Works
City of Lawndale
14717 Burin Avenue
Lawndale, CA 90260

Attention Keith M. Breskin

Dear Ms. Miyoshi:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0607A

This letter is to inform you that as part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 176,600 feet or 100 percent of the City of Lawndale's sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP) rating methodology. Included in the report are the following:

- Condition Assessment Program Report
- Project Overview Map (Enclosure 1)
- Quick Maintenance Rating Report Priority List and Quick Maintenance Rating Map (Enclosure 2)
- Quick Structural Rating Report Priority List and Quick Infrastructure Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Ms. Marlene Miyoshi, Director of Public Works
August 27, 2008
Page 2

The Condition Assessment Program Report will provide you with details regarding the maintenance and structural condition of your City's sewer mainlines. This information can be included in your agency's Sewer System Management Plan as a reference in Chapter 8.0 System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, in some instances, have been incorporated into our routine cleaning schedule for continued monitoring. In addition, the segments with severe structural defects have either been repaired or will be scheduled for repair as part of the ongoing Accumulative Capital Outlay Project.

If you have any questions regarding this Report or the Condition Assessment Program, please contact Mr. Robert Swartz AT (626) 300-3367, Monday through Friday, 7 a.m. to 4 p.m., or at rswartz@dpw.lacounty.gov.

Very truly yours,

DEAN EFSTATHIOU
Acting Director of Public Works



MANUEL DEL REAL
Assistant Deputy Director
Sewer Maintenance Division

CM:ag
1548

Enc.

bc: Programs Development (Mostafa)

bc: MdR, KL, RS, FV, File (Project Y0TV0607A), SPINDLE

**CONDITION ASSESSMENT REPORT
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
CONSOLIDATED SEWER MAINTENANCE DISTRICT**

PROJECT NAME:	Y0TV0607A	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	1/15/07 – 3/26/07	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	2	MAP PAGE(S):	1592, 1593, and 1594
Report By:	Colin McCarter	Report Date:	08/21/08

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 176,600 feet or 100 percent of the City of Lawndale sewer system.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP) Quick Rating method to rank the structural and maintenance condition of your system based on industry standards.

PROJECT AREA AND DESCRIPTION

Project Y0TV0607A included sewer lines located in both the Unincorporated County of Los Angeles area and in the City of Lawndale. Enclosed for your reference is an overview map of the project area (Enclosure 1).

DEFECT GRADE DESCRIPTION

The Quick Rating indicates the number of occurrences for the highest severity grade for each pipe segment for either maintenance or infrastructure defects. A grade of 1 indicates that a pipe segment is in excellent condition with minor defects, while a grade of 5 indicates that a pipe segment may require immediate attention. A detailed breakdown of the 5 possible defect grades is as follows:

Grade	Description	Estimate time to Failure
1:	EXCELLENT: Minor Defects.	Unlikely in the foreseeable future
2:	GOOD: Defects that have not begun to deteriorate.	20 years or more
3:	FAIR: Moderate defects that will continue to deteriorate.	10 to 20 years
4:	POOR: Sever defects that will become grade 5 defects within the foreseeable future.	5 to 10 years
5:	IMMEDIATE ATTENTION: Defects requiring immediate attention.	Has failed or will likely fail within the next 5 years

MAINTENANCE REPORT

Our inspection revealed that approximately 87.7 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 12.3 percent of the inspected pipe segments within the City of Lawndale area had a PACP maintenance grade of 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2). Also included is a color-coded map showing the quick maintenance rating for each pipe segment and outlines the observation from the CCTV inspection and the corrective action taken by our maintenance staff.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	96,915	54.9	408
2: Good	39,457	22.3	150
3: Fair	18,551	10.5	72
4: Poor	17,618	10.0	64
5: Immediate Attention	4,059	2.3	15
TOTAL	176,600	100.0	709

STRUCTURAL REPORT

Our inspection revealed that approximately 95.9 percent of the inspected pipe segments within the City of Lawndale were free of severe structural defects. However, the remaining 4.1 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Infrastructure Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 26 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed corrective method will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection reports for these 26 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	83,704	47.4	358
2: Good	31,729	18.0	123
3: Fair	53,893	30.5	202
4: Poor	2,530	1.4	9
5: Immediate Attention	4,744	2.7	17
TOTAL	176,600	100.0	709

ENCLOSURE 1:

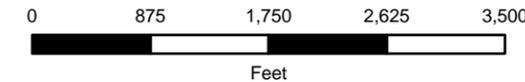
Project Overview Map

PROJECT OVERVIEW MAP

CCTV PROJECT

Y0TV0607A

Supervisorial District 2
City of Lawndale
Unincorporated LA County



Legend

SMD Manholes

Other

MH Type

Standard

DROP

Shallow

Trap

Siphon

SMD Pump Satations

SMD Treatment Plants

SMD Sanitary Sewers

<all other values>

S_T.S_Location

LAW

ZLAS

Maintained by Others:

Trunk Sewerlines

Non SMD Sanitary Sewers

Trunk Sewer

Non SMD Manholes

Parcel Boundary

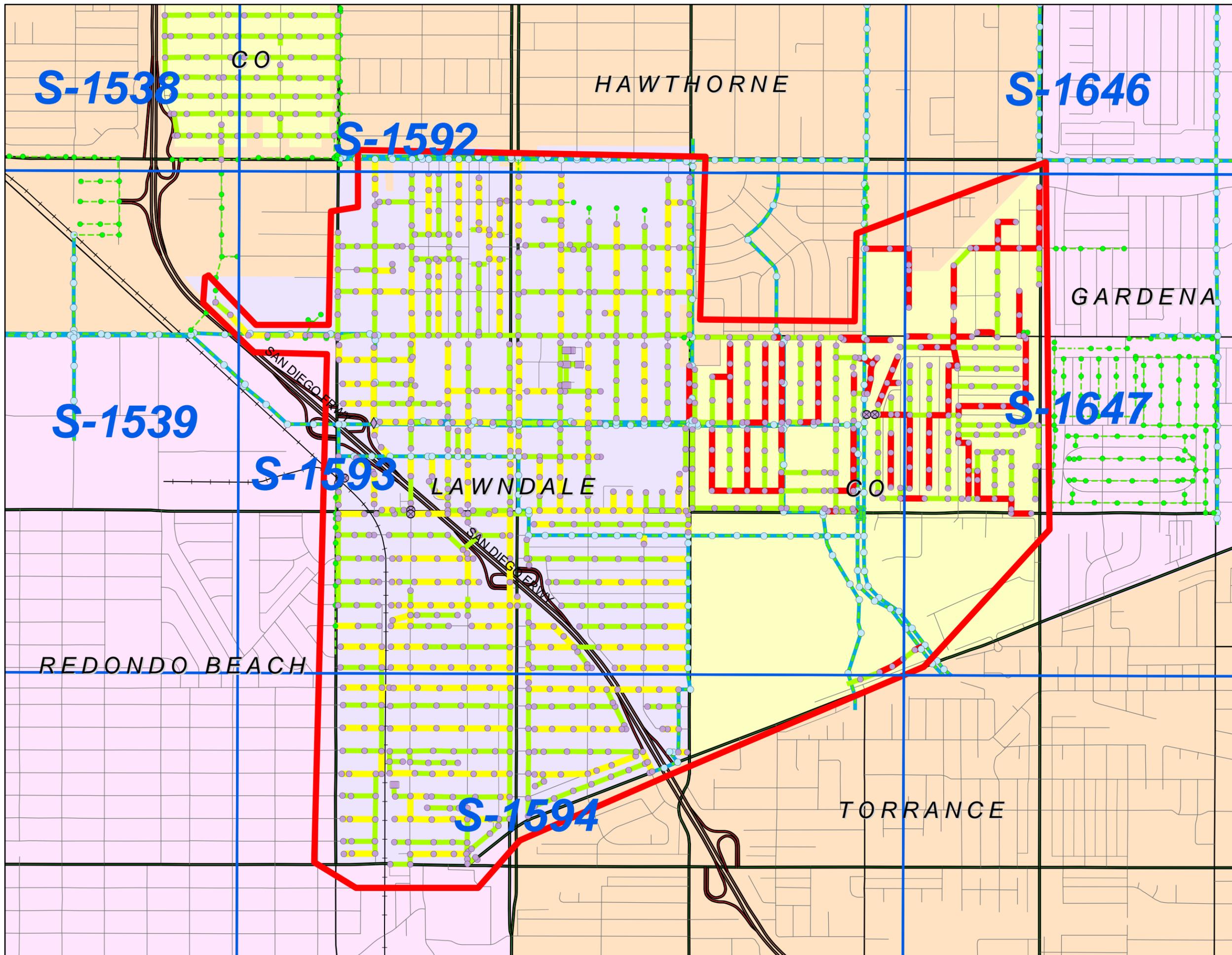
SMD Operations Maps

Y0TV0607A

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August 2008

Y0TV0708C_Overview.mdx



ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Quick Maintenance Rating Map

ENCLOSURE 2
 QUICK MAINTENANCE REPORT PRIORITY LIST -
 CITY OF LAWDALE (Y0TV0607A)
 as of 03/26/07

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5841	1593-0492	1593-0493	153RD ST	Debris	Hydrojet (Cleaned 1/23/07)
2	5545	1593-0645	1593-0010	159TH ST	Grease deposits	Hydrojet (Cleaned 6/12/08)
3	5442	1593-0650	1593-0649	161ST ST	Grease deposits	Rodder (Cleaned 3/10/08)
4	5322	1593-0441	1593-0440	152ND ST	Grease deposits	Hydrojet (Cleaned 6/12/08)
5	5141	1593-0433	1593-0432	INGLEWOOD AV	Grease deposits	Hydrojet (Cleaned 6/12/08)
6	5131	1593-0605	1593-0606	165TH ST	Grease deposits	Hydrojet (Cleaned 6/13/08)
7	512O	1593-0335	1593-0336	HAWTHORNE BV	Grease deposits	Hydrojet on a 6-Month Periodic (Last cleaned 3/7/08)
8	512K	1593-0334	1593-0335	HAWTHORNE BV	Grease deposits	Hydrojet on a 6-Month Periodic (Last cleaned 3/7/08)
9	512C	1593-0569	1593-0568	MANHATTAN BEACH BV	Grease deposits	Hydrojet (Cleaned 6/13/08)
10	5121	1593-0706	1593-0555	MANHATTAN BEACH BV	Obstacle	Emergency Point Repair (September 2007)
11	5121	1593-0357	1593-0327	MARINE AV	Grease deposits	Hydrojet on a 6-Month Periodic (Last cleaned 3/25/08)
12	5121	1594-0050	1594-0049	170TH ST	Rootball intruding from lateral	Hydrojet on a 60-Day Periodic (Last cleaned 5/06/08)
13	511H	1593-0624	1593-0625	EASEMENT by FIRMONA and 162ND	Grease deposits	Hydrojet (Cleaned 6/16/08)
14	5100	1593-0556	1593-0557	MANHATTAN BEACH BV	Rocks and deposits	Hydrojet (Cleaned 6/13/08)
15	5100	1593-0610	1593-0637	HAWTHORNE BV	High water level	Hydrojet (Cleaned 6/16/08)
16	4632	1593-0466	1593-0465	153RD PL	Medium roots	Hydrojet (Cleaned 6/12/08)
17	441G	1593-0426	1593-0425	INGLEWOOD AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
18	4335	1593-0463	1593-0464	153RD PL	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
19	4334	1594-0051	1594-0050	170TH ST	Rootball intruding from lateral	Hydrojet on a 60-Day Periodic (Last cleaned 5/06/08)
20	4332	1594-0041	1594-0042	EASEMENT by FIRMONA and 170TH	Rootball at joint and intruding from lateral	Hydrojet (Cleaned 6/13/08)
21	4331	1594-0012	1594-0011	167TH ST	Rootball intruding from lateral	Rodder (Last cleaned 11/06/07)
22	4331	1594-0081	1594-0080	EASEMENT by GREVILLA and 172ND	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
23	4315	1594-0037	1594-0036	169TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
24	4238	1593-0403	1593-0406	FIRMONA AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
25	4233	1593-0361	1593-0360	ALLEY Between GREVILLEA AV and BURIN AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
26	4233	1593-0444	1593-0443	152ND ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
27	4231	1594-0057	1594-0056	171ST ST	Rootball intruding from lateral	Hydrojet on a 5-Month Periodic (Last cleaned 3/12/08)
28	4231	1594-0072	1594-0073	172ND ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
29	4231	1594-0076A	1594-0077	172ND ST	Grease deposits	Hydrojet on a 90-Day Periodic (Last cleaned 3/12/08)
30	422C	1593-0657	1593-0658	160TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
31	4222	1594-0047	1594-0048	170TH ST	Grease deposits	Hydrojet (Cleaned 6/13/08)
32	421C	1593-0652	1593-0651	161ST ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/8/08)
33	421A	1593-0390	1593-0389	ALLEY Between KINGSDALE AV and MANSEL AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)

ENCLOSURE 2
 QUICK MAINTENANCE REPORT PRIORITY LIST -
 CITY OF LAWDALE (Y0TV0607A)
 as of 03/26/07

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
34	421A	1594-0053	1594-0054	170TH ST	Rootball intruding from lateral	Hydrojet on a 60-Day Periodic (Last cleaned 5/06/08)
35	4216	1593-0551	1593-TRNK	MANSEL AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)
36	4213	1594-0073	1594-0074	172ND ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/13/08)
37	4211	1594-0080	1594-0079	EASEMENT by GREVILLEA and 172ND	Rootball intruding from lateral	Hydrojet (Cleaned 6/18/08)
38	413D	1593-0639	1593-0640	HAWTHORNE BV	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)
39	4132	1593-0632	1593-NORT	GREVILLEA AV	Medium roots	Hydrojet (Cleaned 6/16/08)
40	4132	1594-0046	1594-0047	170TH ST	Medium roots	Hydrojet (Cleaned 6/13/08)
42	4131	1594-0118	1594-0119	167TH ST	Medium roots	Hydrojet (Cleaned 6/17/08)
43	4131	1593-0598	1593-0599	164TH ST	Grease deposits	Hydrojet (Cleaned 6/17/08)
44	4131	1593-0360	1593-0359	ALLEY Between GREVILLEA AV and BURIN AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)
45	4131	1593-0465	1593-0464	153RD PL	Rootball intruding from lateral	Hydrojet (Cleaned 6/12/08)
46	4131	1593-0300	1593-0301	165TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/18/08)
47	4131	1593-0301	1593-0302	165TH ST	Rootball at joint	Hydrojet (Cleaned 6/18/08)
48	4131	1593-0656	1593-0657	160TH ST	Rootball at joint and intruding from lateral	Hydrojet (Cleaned 6/12/08)
49	4131	1594-0013	1594-0012	167TH ST	Grease deposits	Hydrojet (Cleaned 6/17/08)
50	4131	1594-0099	1594-0098	ALLEY Between FREEMAN AV and EASTWOOD AV	Medium roots	Hydrojet (Cleaned 6/17/08)
51	4131	1594-0020	1594-0021	168TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)
52	412E	1593-0587	1593-0583	INGLEWOOD AV	Grease deposits	Hydrojet on a 5-Month Periodic (Last cleaned 3/25/08)
53	4129	1593-0615	1593-0616	164TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/18/08)
54	4126	1594-0028	1594-0011	HAWTHORNE BV	Grease deposits	Hydrojet (Cleaned 1/25/07)
55	4125	1594-0036	1594-0022	CONDON AV	Rootball intruding from lateral and grease deposits	Hydrojet on a 4-Month Periodic (Last cleaned 3/12/08)
56	4122	1593-0604	1593-0605	165TH ST	Rootball intruding from lateral and grease deposits	Hydrojet (Cleaned 6/13/08)
57	4121	1593-0363	1593-0390	MARINE AV	Debris	Hydrojet (Cleaned 6/17/08)
58	4121	1593-0400	1593-0401	FIRMONA AV	Grease deposits	Hydrojet (Cleaned 6/17/08)
59	4121	1593-0304	1593-0440	INGLEWOOD AV	Grease deposits	Hydrojet on a 90-Day Periodic (Last cleaned 3/7/08)
60	411D	1594-0153	1594-0154	EASEMENT BY 170TH and 171ST ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)
61	4112	1594-0039	1594-0040	EASEMENT BETWEEN 169TH Aand 170TH ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)
62	4111	1593-0540	1593-0454	HAWTHORNE BV	Debris	CSMD repaired trough (06/16/08).
63	4100	1593-0408	1593-0407	MARINE AV	High water level	Hydrojet on a 90-Day Periodic (Last cleaned 4/25/08)
64	4100	1593-0364	1593-0363	ALLEY Between GREVILLEA AV and MUNSEL AV	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)
65	4100	1593-0291	1593-0290	163RD ST	Rootball intruding from lateral	Hydrojet (Cleaned 6/16/08)
66	4100	1594-0044	1594-SOUT	EASEMENT by 170TH and GREVILLEA AVE.	Rootball intruding from lateral	Hydrojet (Cleaned 6/17/08)

The following line segments received a Quick Maintenance Rating of above 4000 due to the observation of root ball inside the lateral connection. CSMD does not maintain lateral lines; it is the responsibility of the parcel owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. Therefore, these lines were not included on the Priority List above identified with maintenance deficiencies in need of immediate attention by CSMD.

Item No.	QMR	Start MH	End MH	Street	Observation
1	4432	1593-0467	1593-0466	153RD PL	Root ball in lateral connection.
2	411C	1594-0069	1594-0068	172ND ST	Root ball in lateral connection.
3	411B	1593-0392	1593-0391	KINGSDALE AV	Root ball in lateral connection.
4	4117	1593-0389	1593-0388	ALLEY by 149th and KINGSDALE	Root ball in lateral connection.
5	4117	1594-0058	1594-0057	171ST ST	Root ball in lateral connection.
6	4113	1593-0401	1593-0402	FIRMONA AV	Root ball in lateral connection.
7	4112	1593-0292	1593-0293	163RD ST	Root ball in lateral connection.
8	4111	1593-0590	1593-0589	161ST ST	Root ball in lateral connection.
9	4111	1593-0385	1593-0384	ALLEY off FIRMONA N of 147th	Root ball in lateral connection.
10	4111	1593-0373	1593-0372	ALLEY off MANSEL S of 147th	Root ball in lateral connection.
11	4111	1593-0617	1593-0618	163RD ST	Root ball in lateral connection.
12	4100	1593-0384	1593-0377	ALLEY of KINGSDALE N of 147th	Root ball in lateral connection.
13	4100	1593-0613	1593-0612	164TH ST	Root ball in lateral connection.

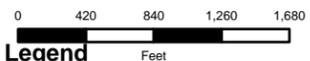
ENCLOSURE 2

CCTV PROJECT

YOTV0607A

Supervisory District 2
Lawndale

QUICK MAINTENANCE RATING (QMR)



Legend

SMD Sanitary Sewers

<all other values>

Quick.S_city, Quick.my_QMR

- EXCELLENT
- GOOD
- FAIR
- POOR
- NEEDS IMMEDIATE ATTENTION
- ROOT BALL IN LATERAL

SMD Manholes

- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon

SMD Pump Stations

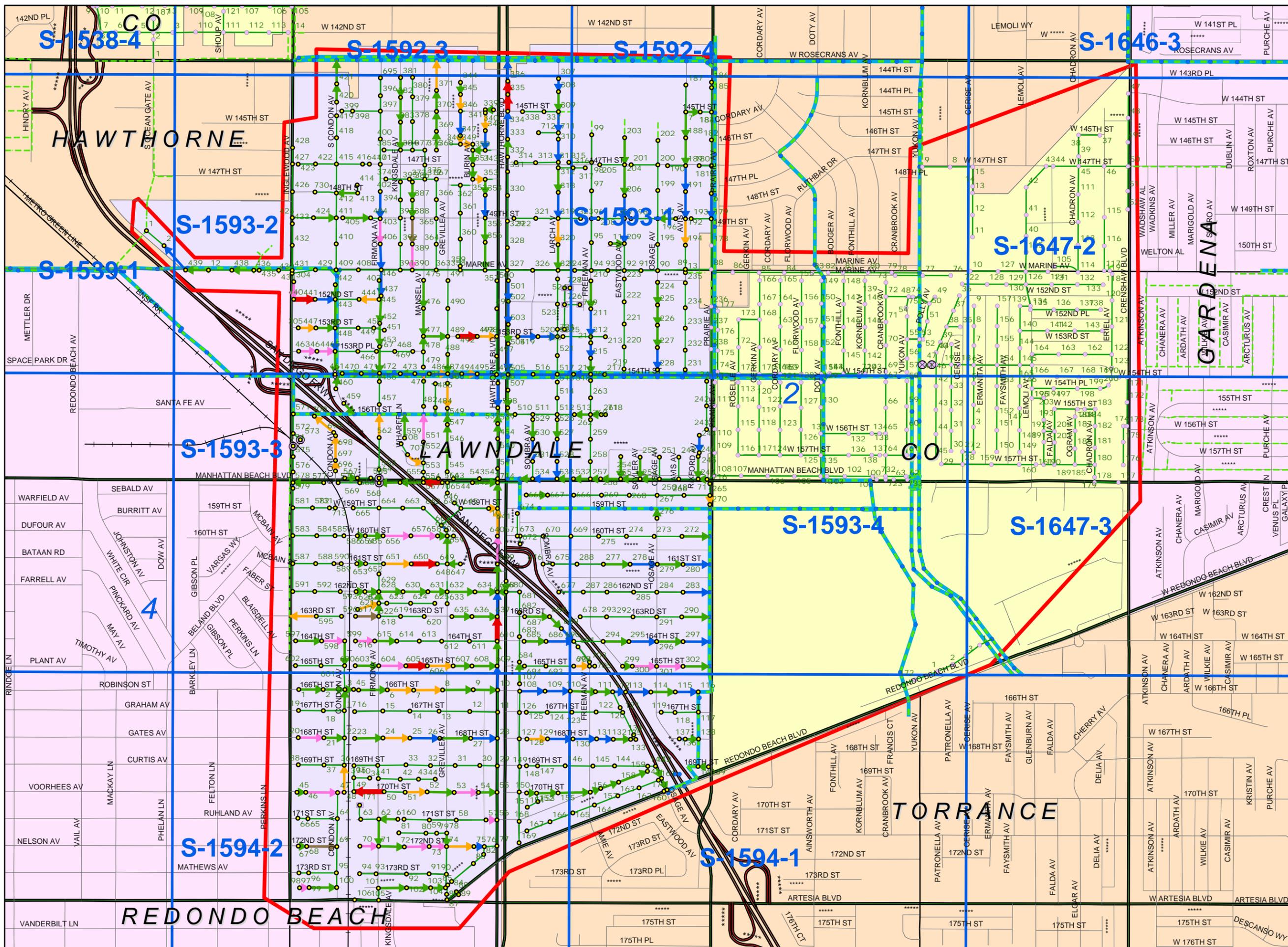
SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- DPW_SMD.nosmd_mh
- Parcel Boundary
- SMD Operations Maps
- YOTV0607A

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July 8, 2008



ENCLOSURE 3:

- Quick Structural Rating Report
Priority List
- Quick Structural Rating Map

ENCLOSURE 3

QUICK STRUCTURAL RATING PRIORITY LIST - CITY OF LAWNSDALE (Y0TV0607A)

As of 03/26/07

Item No.	Section No	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	19	5331	1594-0099	1594-0100	ALLEY	Hole with soil visible and broken: 4'; Broken with soil visible; 226'	Point repair 264'-272'; Lining: MH to MH after point repair	8
2	37	5242	1594-0003	1594-0004	166TH ST	Hole with concrete visible: 59' and 65'; multiple cracks	Lining: MH to MH	331
3	38	5238	1593-0706	1593-0555	MANHATTAN BEACH BV	Pipe Collapse: 195'	Emergency Project (Point Repair); completed Sept 2007	Completed
4	307	5141	1593-0200	1593-0199	OSAGE AV	Hole with soil visible: 290'; multiple cracks	Lining: MH to MH	378
5	322	5141	1594-0076A	1594-0077	172ND ST	Hole with soil visible: 85'; Broken : 134'	Clean and retelevise. Re-assess defects.	-
6	377	5137	1593-0194	1593-0089	AVIS AV	Hole under concrete blanket: 237' - 241'	Pipe material missing. Pipe segment encased in concrete. Structural integrity intact. No action needed.	-
7	378	5137	1593-0398	1593-0397	145TH ST	Broken with soil visible: 245'; multiple cracks	Lining: MH to MH	189
8	380	5135	1593-0192	1593-0194	AVIS AV	Broken with soil visible: 266' - 270'; multiple cracks	Pipe encased in concrete. Structural integrity intact. No action needed.	-
9	398	5132	1593-0556	1593-0557	MANHATTAN BEACH BV	Hole with concrete visible: 78'; multiple cracks and fractures	Pipe encased in concrete. Structural integrity intact. No action needed.	-
10	400	5131	1593-0432	1593-0431	INGLEWOOD AV	Broken with soil visible: 202' & 208'; multiple cracks	Lining: MH to MH	225
11	446	5123	1593-0371	1592-TRNK	ALLEY between Grevillea and Mansel ST	Joint offset and hole with soil visible: 259'	No action needed. CSMD will monitor at this time.	-
12	462	5122	1593-0596	1593-0595	163RD ST	Hole at 12 o'clock position: 95'	Structural integrity intact. No action needed.	-
13	468	5121	1593-0540	1593-0454	HAWTHORNE BV	Hole with soil visible at end MH	CSMD repaired trough on 6/18/08.	-
14	471	5112	1593-0187	1593-0007	AVIS AV	Hole with soil visible at lateral: 199'	Responsibility of the property-owner. No action needed.	-
15	519	5111	1593-0450	1593-0449	153RD ST	Hole with soil visible @ start MH.	CSMD repaired MH base on 6/18/08.	-
16	630	5100	1593-0623	1593-0624	Between 162ND and 163RD ST	Hole at 10 - 12 o'clock at joint (gasket exposed): 117'	Structural integrity intact. No action needed.	-
17	648	5100	1594-0071	1594-0072	172ND ST	Broken with soil visible: 11'	Structural integrity intact. No action needed.	-
18	684	4435	1593-0642	1593-0714	MANHATTAN BEACH BV	Multiple fractures and cracks	Structural integrity intact. No action needed.	-
19	814	4232	1594-0071	1594-0070	172ND ST	Broken, joint offsets and multiple fractures: 193' - 215'	Lining: MH to MH	236
20	827	4231	1594-0028	1594-0011	HAWTHORNE BV	Broken: 84'; multiple fractures	Structural integrity intact. No action needed.	-
21	1021	413B	1594-0153	1594-0154	Between 170TH and 171ST ST	Multiple fractures and cracks	Lining: MH to MH	348

ENCLOSURE 3

QUICK STRUCTURAL RATING PRIORITY LIST - CITY OF LAWNSDALE (Y0TV0607A)

As of 03/26/07

Item No.	Section No	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
22	1043	413B	1593-0530	1593-0531	SOMBRA AV	Hole at joint with gasket showing: 53'; multiple cracks	Structural integrity intact. No action needed.	-
23	1049	4135	1593-0319	1593-0320	LARCH AV	Hole with soil visible: 104'; multiple cracks	Structural integrity intact. No action needed.	-
24	1062	4132	1594-0021	1594-0022	168TH ST	Broken with soil visible: 239'; multiple cracks	Lining: MH to MH	236
25	1064	4124	1593-0330	1593-0329	HAWTHORNE BV	Hole with soil visible: 98'; multiple cracks	Lining: MH to MH	342
26	1079	4118	1593-0429	1593-0409	MARINE AV	Broken pipe: 257'; multiple cracks	Lining: MH to MH	192

ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

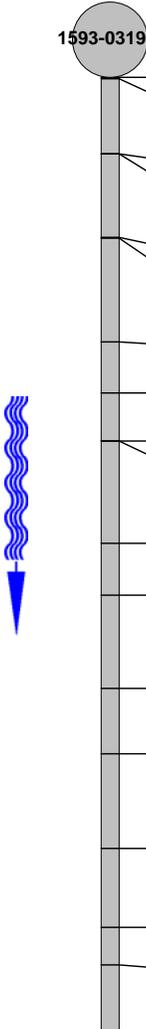
Date: 01/17/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 19	PSR: 73269
Total Pipe Length: 329.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: LARCH AV	Flow Control: N Not Controlled	Start MH: 1593-0319
City: LAW	Year Renewed:	End MH: 1593-0320
Location Code: C Light Highway	Tape/Media #: G312-002	pipe length: 320.6 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length: 4.0
Drain. Area: 0319/1593-0320/1593	Lining Method:
	Category:

Remark::

1:660	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0319		00:00:39	545
	0.50	S1 MWLS	Water Level Sag, 25 %, within 8 inch: NO, Start	M 2	00:01:24	546
	22.10	CM	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 3	00:02:36	547
	22.10	JOM	Joint Offset Medium, within 8 inch: NO	S 1	00:03:11	548
	46.20	F1 MWLS	Water Level Sag, 25 %, within 8 inch: NO, End	M 2	00:04:05	549
	46.40	MWL	Water Level, 15 %, within 8 inch: NO		00:04:28	550
	76.30	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:05:19	551
	90.90	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:06:02	552
	104.80	H	Hole, from 2 to 4 o'clock, within 8 inch: YES	S 4	00:06:47	553
	104.80	CM	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 3	00:07:26	554
	134.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:08:33	555
	149.10	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:9:10	556
	176.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:10:04	557
	194.80	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:10:53	558
	222.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:11:53	559
	244.90	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:12:47	560
	255.80	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:13:21	561





Inspection report

Date: 01/17/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 19	PSR: 73269
Total Pipe Length: 329.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:660	position	code	observation	grade	MPEG	photo
	278.00	S2	MWLS Water Level Sag, 25 %, within 8 inch: NO, Start	M 2	00:14:43	562
	286.00	F2	MWLS Water Level Sag, 25 %, within 8 inch: NO, End	M 2	00:15:16	563
	288.80	TBA	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO		00:15:51	564
	288.80	DAGS	Deposits Attached Grease, from 8 to 10 o'clock, 10 %, within 8 inch: NO	M 2	00:16:06	565
	289.10	DAGS	Deposits Attached Grease, from 9 to 3 o'clock, 15 %, within 8 inch: NO	M 3	00:16:34	566
	291.00	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:17:08	567
	291.00	RFL	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	M 1	00:17:21	568
	291.00	DAGS	Deposits Attached Grease, from 1 to 4 o'clock, 15 %, within 8 inch: NO	M 3	00:18:05	569
	291.00	CM	Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES	S 3	00:18:41	570
	291.00	RFJ	Roots Fine Joint, from 1 to 4 o'clock, within 8 inch: YES	M 1	00:18:59	571
	294.80	S3	MWLS Water Level Sag, 25 %, within 8 inch: NO, Start	M 2	00:19:37	572
	308.80	DAGS	Deposits Attached Grease, from 7 to 5 o'clock, 10 %, within 8 inch: YES	M 2	00:20:32	573
	308.80	RFJ	Roots Fine Joint, from 1 to 3 o'clock, within 8 inch: YES	M 1	00:20:48	574
	308.90	CM	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	S 3	00:21:03	575
	314.00	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:21:56	576
	314.00	RFL	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	M 1	00:22:09	577
	316.80	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:22:42	578
	318.10	CM	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 3	00:23:07	579
	318.10	RFJ	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	M 1	00:23:23	580
	320.50	F3	MWLS Water Level Sag, 25 %, within 8 inch: NO, End	M 2	00:23:56	581
	320.60	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0320		00:24:34	582



1593-0320



Inspection report

Date: 01/19/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 37	PSR: 73393
Total Pipe Length: 331.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: AVIS AV	Flow Control: N Not Controlled	Start MH: 1593-0192
City: LAW	Year Renewed:	End MH: 1593-0194
Location Code: C Light Highway	Tape/Media #: G312-004	pipe length: 349.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length: 3.0
Drain. Area: 0192/1593-0194/1593	Lining Method:
	Category:

Remark::

1:627	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0192		00:00:41	1011
	0.00	MWL	Water Level, 15 %, within 8 inch: NO		00:01:09	1012
	4.00	CL	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	S 2	00:01:35	1013
	4.00	JOM	Joint Offset Medium, within 8 inch: NO	S 1	00:02:08	1014
	4.00	CM	Crack Multiple, from 9 to 5 o'clock, within 8 inch: YES	S 3	00:02:35	1015
	10.40	MWL	Water Level, 10 %, within 8 inch: NO		00:03:37	1016
	40.50	MWL	Water Level, 20 %, within 8 inch: NO		00:04:36	1017
	47.40	MWL	Water Level, 10 %, within 8 inch: NO		00:04:56	1018
	73.30	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:05:58	1019
	82.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:06:37	1020
	122.00	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:08:04	1021
	128.70	CL	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	S 2	00:08:41	1022
	130.00	FL	Fracture Longitudinal, at 4 o'clock, within 8 inch: YES	S 3	00:09:19	1023
	130.00	CM	Crack Multiple, from 8 to 2 o'clock, within 8 inch: YES	S 3	00:10:07	1024
	134.00	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:10:48	1025
	136.60	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:11:14	1026
	185.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:13:07	1027
	190.80	CM	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	S 3	00:14:01	1028
	203.80	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:14:52	1029
	234.40	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:16:06	1030
	236.90	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:16:39	1031
	250.80	S1 MWLS	Water Level Sag, 25 %, within 8 inch: NO, Start	M 2	00:17:25	1032



Inspection report

Date: 01/19/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 37	PSR: 73393
Total Pipe Length: 331.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:627	position	code	observation	grade	MPEG	photo
	<u>266.80</u>	S2	HVV Hole Void Visible, from 9 to 5 o'clock, within 8 inch: YES, Start	S 5	00:19:41	1033
	<u>266.80</u>	DSC	Deposits Settled Compacted, from 4 to 6 o'clock, 15 %, within 8 inch: NO, Remarks: cement	M 3	00:23:17	1034
	<u>269.20</u>	F2	HVV Hole Void Visible, from 9 to 5 o'clock, within 8 inch: YES, End	S 5	00:24:06	1035
	<u>269.60</u>	CC	Crack Circumferential, from 3 to 6 o'clock, within 8 inch: YES	S 1	00:24:51	1036
	<u>273.30</u>	F1	MWLS Water Level Sag, 25 %, within 8 inch: NO, End	M 2	00:25:28	1037
	<u>273.40</u>	MWL	Water Level, 15 %, within 8 inch: NO		00:25:58	1038
	<u>285.50</u>	CM	Crack Multiple, from 8 to 2 o'clock, within 8 inch: YES	S 3	00:26:37	1039
	<u>286.40</u>	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:27:08	1040
	<u>292.00</u>	TFD	Tap Factory Defective, at 9 o'clock, 6", within 8 inch: NO, Remarks: multiple cracks	M 2	00:27:59	1041
	<u>349.80</u>	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0194		00:29:51	1042



Inspection report

Date: 01/19/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 38	PSR: 73537
Total Pipe Length: 304.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: AVIS AV	Flow Control: N Not Controlled	Start MH: 1593-0194
City: LAW	Year Renewed:	End MH: 1593-0089
Location Code: C Light Highway	Tape/Media #: G312-004	pipe length: 300 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length: 3.0
Drain. Area: 0194/1593-0089/1593	Lining Method:
	Category:

Remark::

1:750	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0194		00:00:42	1043
	5.00	MWL	Water Level, 15 %, within 8 inch: NO		00:01:25	1044
	19.00	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:02:03	1045
	21.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:02:31	1046
	35.00	TBA	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO		00:03:14	1047
	67.80	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:04:41	1048
	68.00	FC	Fracture Circumferential, from 8 to 10 o'clock, within 8 inch: NO	S 2	00:05:02	1049
	89.10	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:05:59	1050
	115.70	CL	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	S 2	00:07:09	1051
	115.90	CC	Crack Circumferential, from 8 to 10 o'clock, within 8 inch: YES	S 1	00:07:49	1052
	116.60	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:08:27	1053
	153.50	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:09:46	1054
	165.40	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:10:34	1055
	237.90	S1 HVV	Hole Void Visible, from 8 to 3 o'clock, within 8 inch: YES, Start	S 5	00:13:51	1056
	237.90	CC	Crack Circumferential, from 9 to 11 o'clock, within 8 inch: NO	S 1	00:14:32	1057
	238.80	CM	Crack Multiple, from 3 to 6 o'clock, within 8 inch: YES	S 3	00:15:28	1058
	241.60	F1 HVV	Hole Void Visible, from 8 to 3 o'clock, within 8 inch: YES, End	S 5	00:16:22	1059
	265.50	MMC	Material Change, within 8 inch: NO, Remarks: cast-iron pipe		00:18:14	1060
	265.50	S2 SCP	Surface Corrosion Metal Pipe, from 7 to 5 o'clock, within 8 inch: NO, Start	S 3	00:18:46	1061
	271.50	F2 SCP	Surface Corrosion Metal Pipe, from 7 to 5 o'clock, within 8 inch: NO, End	S 3	00:19:35	1062
	278.60	S3 SCP	Surface Corrosion Metal Pipe, from 7 to 5 o'clock, within 8 inch: NO, Start	S 3	00:20:56	1063
	293.00	F3 SCP	Surface Corrosion Metal Pipe, from 7 to 5 o'clock, within 8 inch: NO, End	S 3	00:21:54	1064
	293.00	MMC	Material Change, within 8 inch: NO, Remarks: vcp		00:22:30	1065
	300.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0089		00:23:30	1066

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5137	0000	32	0	32	2.67	0	2.67



Inspection report

Date: 02/27/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 307	PSR: 84535
Total Pipe Length: 378.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/19/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: ALLEY	Flow Control: N Not Controlled	Start MH: 1593-0371
City: LAW	Year Renewed:	End MH: 1592-TRNK
Location Code: H Alley	Tape/Media #: G312-025	pipe length: 259.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0371/1593-TRNK/1592	Lining Method:
	Category:

Remark::

1:594	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0371		00:00:40	6477
	5.00	MWL	Water Level, 10 %, within 8 inch: NO		00:01:52	6478
	25.90	TBA	Tap Break-in Active, at 12 o'clock, 6", within 8 inch: NO		00:02:47	6479
	79.00	DAGS	Deposits Attached Grease, from 8 to 4 o'clock, 5 %, within 8 inch: NO	M 2	00:04:27	6480
	80.70	TFA	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO		00:05:12	6481
	110.10	RFJ	Roots Fine Joint, from 8 to 11 o'clock, within 8 inch: YES	M 1	00:06:35	6482
	124.40	DAGS	Deposits Attached Grease, from 4 to 8 o'clock, 10 %, within 8 inch: NO	M 2	00:07:37	6483
	129.00	TFA	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO		00:08:34	6484
	164.80	JOM	Joint Offset Medium, within 8 inch: NO	S 1	00:11:16	6485
	164.80	CL	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	S 2	00:11:46	6486
	164.80	FC	Fracture Circumferential, from 4 to 7 o'clock, within 8 inch: YES	S 2	00:10:37	6487
	170.60	MWL	Water Level, 15 %, within 8 inch: NO		00:13:00	6488
	170.70	OBI	Obstacle Intruding Thru Wall, from 1 to 6 o'clock, 20 %, within 8 inch: NO, Remarks: metal bar	M 3	00:14:17	6489
	177.60	MWL	Water Level, 10 %, within 8 inch: NO		00:15:21	6490
	180.10	DAGS	Deposits Attached Grease, from 8 to 4 o'clock, 10 %, within 8 inch: NO	M 2	00:15:57	6491
	181.20	TFA	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO		00:16:34	6492
	183.20	MGO	General Observation, within 8 inch: NO, Remarks: backed up camera to clean		00:27:26	6493
	183.30	S1 MWLS	Water Level Sag, 25 %, within 8 inch: NO, Start	M 2	00:16:54	6494
	225.30	F1 MWLS	Water Level Sag, 25 %, within 8 inch: NO, End	M 2	00:21:01	6495
	225.30	MWL	Water Level, 15 %, within 8 inch: NO		00:21:16	6496
	232.20	S2 MWLS	Water Level Sag, 20 %, within 8 inch: NO, Start	M 2	00:22:01	6497



Inspection report

Date: 02/27/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 307	PSR: 84535
Total Pipe Length: 378.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/19/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:594	position	code	observation	grade	MPEG	photo
	<u>257.40</u>	TFA	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO		00:30:59	6498
	<u>259.20</u>	JOL	Joint Offset Large, within 8 inch: NO	S 2	00:31:27	6499
	<u>259.20</u>	HSV	Hole Soil Visible, from 10 to 2 o'clock, within 8 inch: YES	S 5	00:32:12	6500
	<u>259.30</u>	F2 MWLS	Water Level Sag, 20 %, within 8 inch: NO, End	M 2	00:34:45	6501
	<u>259.30</u>	MSA	Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by large o		00:35:52	6502

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5123	3127	12	18	30	2.4	2	2.14



Inspection report

Date: 02/28/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 322	PSR: 72925
Total Pipe Length: 337.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/21/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

Street: HAWTHORNE BV	Flow Control: N Not Controlled	Start MH: 1594-0028
City: LAW	Year Renewed:	End MH: 1594-0011
Location Code: B Main Highway - Suburban/Rural	Tape/Media #: G312-026	pipe length: 341.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0028/1594-0011/1594	Lining Method:
	Category:

Remark::

1:850	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0028		00:00:39	6762
	6.00	MWL	Water Level, 15 %, within 8 inch: NO		00:01:25	6763
	<u>19.30</u>	DAGS	Deposits Attached Grease, from 4 to 8 o'clock, 10 %, within 8 inch: NO	M 2	00:02:11	6764
	47.10	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:03:31	6765
	79.70	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:05:04	6766
	<u>83.10</u>	S1 MWLS	Water Level Sag, 30 %, within 8 inch: NO, Start	M 2	00:05:37	6767
	83.10	DAGS	Deposits Attached Grease, from 8 to 4 o'clock, 5 %, within 8 inch: NO	M 2	00:05:52	6768
	<u>84.20</u>	H	Hole, from 2 to 3 o'clock, within 8 inch: YES	S 3	00:06:48	6769
	<u>84.20</u>	B	Broken, from 3 to 5 o'clock, within 8 inch: YES	S 4	00:07:12	6770
	<u>93.70</u>	MCU	Camera Underwater, within 8 inch: NO	M 4	00:08:24	6771
	<u>96.20</u>	FM	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4	00:09:30	6772
	96.20	RFJ	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES	M 1	00:10:03	6773
	97.10	MWL	Water Level, 15 %, within 8 inch: NO		00:10:33	6774
	<u>97.10</u>	F1 MWLS	Water Level Sag, 30 %, within 8 inch: NO, End	M 2	00:10:44	6775
	109.80	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:11:38	6776
	142.90	TBA	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO		00:12:58	6777
	145.60	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:13:33	6778
	177.00	RFJ	Roots Fine Joint, from 9 to 10 o'clock, within 8 inch: YES	M 1	00:14:48	6779
	178.60	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:15:32	6780
	187.70	TBA	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO		00:16:20	6781
	202.00	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:17:06	6782
	<u>237.90</u>	TBA	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO		00:18:38	6783
	270.80	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:20:09	6784
	303.70	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:21:27	6785
	341.30	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0011		00:23:08	6786

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4231	4126	11	18	29	3.67	2	2.42



Inspection report

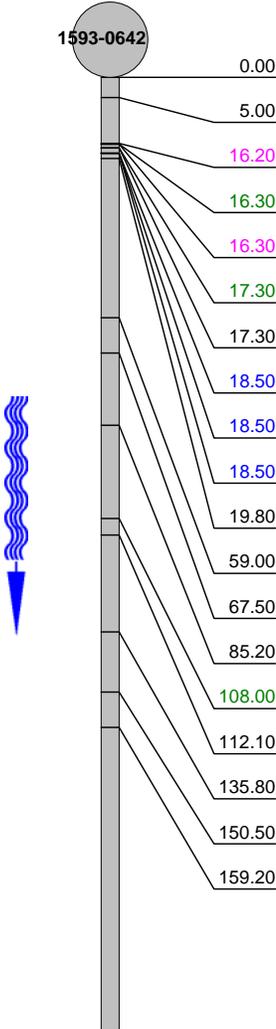
Date: 03/08/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 377	PSR: 72974
Total Pipe Length: 317.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 03/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: MANHATTAN BEACH BV	Flow Control: N Not Controlled	Start MH: 1593-0642
City: LAW	Year Renewed:	End MH: 1593-0714
Location Code: B Main Highway - Suburban/Rural	Tape/Media #: G312-032	pipe length: 290.3 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0642/1593-0714/1593	Lining Method:
	Category:

Remark:: - o - o

1:561	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0642		00:00:49	7721
	5.00	MWL	Water Level, 5 %, within 8 inch: NO		00:01:53	7722
	<u>16.20</u>	FM	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 4	00:07:01	7723
	<u>16.30</u>	B	Broken, from 3 to 4 o'clock, within 8 inch: YES	S 3	00:08:01	7724
	<u>16.30</u>	D	Deformed, 5 %, within 8 inch: NO	S 4	00:08:18	7725
	<u>17.30</u>	FL	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	S 3	00:09:16	7726
	17.30	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:09:42	7727
	<u>18.50</u>	CL	Crack Longitudinal, at 7 o'clock, within 8 inch: YES	S 2	00:10:15	7728
	<u>18.50</u>	CL	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	S 2	00:10:32	7729
	<u>18.50</u>	FC	Fracture Circumferential, from 2 to 4 o'clock, within 8 inch: YES	S 2	00:10:46	7730
	19.80	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:11:33	7731
	59.00	TFC	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO		00:14:33	7732
	67.50	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:15:42	7733
	85.20	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:17:16	7734
	<u>108.00</u>	CM	Crack Multiple, from 7 to 11 o'clock, within 8 inch: NO	S 3	00:18:53	7735
	112.10	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:21:09	7736
	135.80	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:22:23	7737
	150.50	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:23:23	7738
	159.20	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:24:16	7739





Inspection report

Date: 03/08/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 377	PSR: 72974
Total Pipe Length: 317.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 03/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:561	position	code	observation	grade	MPEG	photo
	<u>236.00</u>	FM	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: NO	S 4	00:26:58	7740
	<u>236.00</u>	FM	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: NO	S 4	00:27:31	7741
	<u>237.40</u>	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:28:11	7742
	<u>241.80</u>	FC	Fracture Circumferential, from 12 to 5 o'clock, within 8 inch: NO	S 2	00:29:39	7743
	<u>241.80</u>	FC	Fracture Circumferential, from 12 to 6 o'clock, within 8 inch: NO	S 2	00:30:20	7744
	<u>248.00</u>	CM	Crack Multiple, from 7 to 3 o'clock, within 8 inch: NO	S 3	00:31:46	7745
	<u>248.00</u>	CM	Crack Multiple, from 7 to 3 o'clock, within 8 inch: NO	S 3	00:32:16	7746
	<u>290.30</u>	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0714		00:34:37	7747

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4435	0000	41	0	41	2.93	0	2.93



Inspection report

Date: 03/08/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 378	PSR: 73013
Total Pipe Length: 189.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 03/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: MANHATTAN BEACH BV	Flow Control: N Not Controlled	Start MH: 1593-0706
City: LAW	Year Renewed:	End MH: 1593-0555
Location Code: B Main Highway - Suburban/Rural	Tape/Media #: G312-032	pipe length: 195 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0706/1593-0555/1593	Lining Method:
	Category:

Remark::

1:500	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0706		00:00:42	7748
	5.00	MWL	Water Level, 5 %, within 8 inch: NO		00:01:23	7749
	5.00	DSC	Deposits Settled Compacted, from 1 to 3 o'clock, 10 %, within 8 inch: M 2 YES		00:02:04	7750
	10.10	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:02:46	7751
	11.70	CM	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	S 3	00:03:19	7752
	76.80	CM	Crack Multiple, from 8 to 3 o'clock, within 8 inch: YES	S 3	00:05:34	7753
	90.50	CM	Crack Multiple, from 9 to 11 o'clock, within 8 inch: YES	S 3	00:06:49	7754
	98.50	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:07:42	7755
	101.70	CM	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	S 3	00:08:29	7756
	140.70	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:09:50	7757
	162.60	CC	Crack Circumferential, from 7 to 8 o'clock, within 8 inch: YES	S 1	00:11:01	7758
	166.00	CM	Crack Multiple, from 4 to 10 o'clock, within 8 inch: YES	S 3	00:12:03	7759
	176.30	CM	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 3	00:12:59	7760
	183.00	CM	Crack Multiple, from 10 to 4 o'clock, within 8 inch: YES	S 3	00:14:07	7761
	184.20	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:14:39	7762
	189.00	CC	Crack Circumferential, from 2 to 6 o'clock, within 8 inch: YES	S 1	00:15:21	7763
	190.60	MWL	Water Level, 15 %, within 8 inch: NO		00:15:45	7764
	192.40	CM	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	S 3	00:16:08	7765
	194.80	OBI	Obstacle Intruding Thru Wall, from 7 to 6 o'clock, 95 %, within 8 inch: M 5 NO, Remarks: Telephone pole		00:18:25	7766
	195.00	BSV	Broken Soil Visible, from 7 to 6 o'clock, within 8 inch: NO	S 5	00:19:01	7767
	195.00	XP	Collapse Pipe Sewer, at 7 o'clock, 95 %, within 8 inch: NO, Remarks: Telephone pole in pipe	S 5	00:19:58	7768
	195.00	MSA	Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by collaps		00:20:54	7769

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5238	5121	36	7	43	3	3.5	3.07



Inspection report

Date: 03/08/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 380	PSR: 73014
Total Pipe Length: 238.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 03/08/2007	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 1593

Street: MANHATTAN BEACH BV	Flow Control: N Not Controlled	Start MH: 1593-0556
City: LAW	Year Renewed:	End MH: 1593-0557
Location Code: B Main Highway - Suburban/Rural	Tape/Media #: G312-032	pipe length: 81.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0556/1593-0557/1593	Lining Method:
	Category:

Remark::

1:200	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0556		00:00:37	7779
	5.00	MWL	Water Level, 5 %, within 8 inch: NO		00:01:32	7780
	5.00	CM	Crack Multiple, from 9 to 3 o'clock, within 8 inch: YES	S 3	00:01:58	7781
	6.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:02:32	7782
	8.80	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:03:03	7783
	23.60	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:03:44	7784
	28.20	CM	Crack Multiple, from 9 to 4 o'clock, within 8 inch: YES	S 3	00:04:33	7785
	29.00	TBA	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO		00:05:19	7786
	59.40	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:06:21	7787
	65.10	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:06:50	7788
	78.50	HSV	Hole Soil Visible, from 9 to 11 o'clock, within 8 inch: YES	S 5	00:07:59	7789
	78.50	MWL	Water Level, 15 %, within 8 inch: NO		00:08:26	7790
	81.20	DSC	Deposits Settled Compacted, from 3 to 9 o'clock, 50 %, within 8 inch: M 5 NO		00:09:29	7791
	81.50	MSA	Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by cement		00:10:00	7792

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5132	5100	11	5	16	3.67	5	4



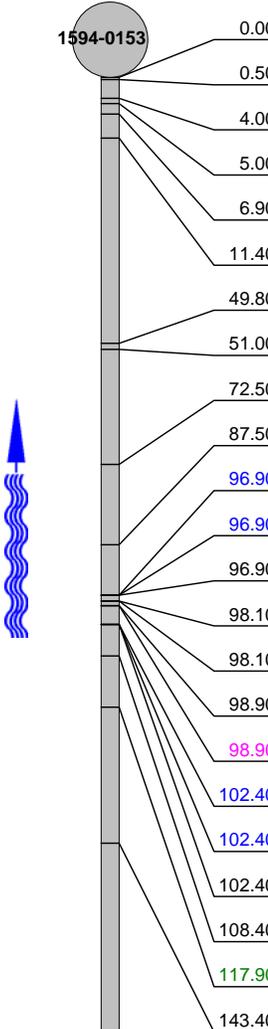
Inspection report

Date: 03/12/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 398	PSR: 72818
Total Pipe Length: 188.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 03/12/2007	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 1594

Street: 0	Flow Control: N Not Controlled	Start MH: 1594-0153
City: LAW	Year Renewed	End MH: 1594-0154
Location Code: D Easement/Right of Way	Tape/Media #: G312-034	pipe length: 187.9 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0154/1594-0153/1594	Lining Method:
	Category:

Remark::

1:429	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0153		00:00:42	8088
	0.50	CC	Crack Circumferential, from 7 to 6 o'clock, within 8 inch: NO	S 1	00:02:38	8089
	4.00	RFJ	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	M 1	00:03:26	8090
	5.00	MWL	Water Level, 5 %, within 8 inch: NO		00:04:30	8091
	6.90	RFJ	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	M 1	00:05:00	8092
	11.40	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:05:32	8093
	49.80	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:06:41	8094
	51.00	RFJ	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	M 1	00:06:58	8095
	72.50	RFJ	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	M 1	00:08:07	8096
	87.50	RFJ	Roots Fine Joint, from 8 to 2 o'clock, within 8 inch: YES	M 1	00:09:09	8097
	96.90	S1 CL	Crack Longitudinal, at 9 o'clock, within 8 inch: YES, Start	S 2	00:10:34	8098
	96.90	S2 CL	Crack Longitudinal, at 12 o'clock, within 8 inch: YES, Start	S 2	00:11:01	8099
	96.90	S3 CC	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES, Start	S 1	00:11:31	8100
	98.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:12:24	8101
	98.10	RFL	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	M 1	00:12:38	8102
	98.90	JOM	Joint Offset Medium, within 8 inch: NO	S 1	00:13:13	8103
	98.90	D	Deformed, 10 %, within 8 inch: NO	S 4	00:13:45	8104
	102.40	F1 CL	Crack Longitudinal, at 9 o'clock, within 8 inch: YES, End	S 2	00:14:25	8105
	102.40	F2 CL	Crack Longitudinal, at 12 o'clock, within 8 inch: YES, End	S 2	00:14:40	8106
	102.40	F3 CC	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES, End	S 1	00:14:55	8107
	108.40	S4 RFJ	Roots Fine Joint, from 1 to 5 o'clock, within 8 inch: YES, Start	M 1	00:15:59	8108
	117.90	S5 CM	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	S 3	00:16:49	8109
	143.40	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:18:14	8110



Inspection report

Date: 03/12/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 398	PSR: 72818
Total Pipe Length: 188.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 03/12/2007	Pre-Cleaned: H Heavy Cleaning	Map Grid #: 1594

1:429	position	code	observation	grade	MPEG	photo
	182.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:20:00	8111
	185.30	F4	RFJ Roots Fine Joint, from 1 to 5 o'clock, within 8 inch: YES, End	M 1	00:21:03	8112
	185.30	F5	CM Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	S 3	00:21:19	8113
	185.30	MMC	Material Change, within 8 inch: NO, Remarks: cast-iron pipe		00:21:49	8114
	185.80	SCP	Surface Corrosion Metal Pipe, from 3 to 9 o'clock, within 8 inch: NO	S 3	00:22:52	8115
	187.90	DNZ	Deposits Ingressed Other, from 4 to 8 o'clock, 30 %, within 8 inch: NO, Remarks: dirt	M 4	00:24:30	8116
	187.90	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0154		00:25:15	8117



Inspection report

Date: 01/26/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Anthony Hernandez	section number: 400	PSR: 73156
Total Pipe Length: 197.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 153RD ST	Flow Control: N Not Controlled	Start MH: 1593-0450
City: LAW	Year Renewed:	End MH: 1593-0449
Location Code: C Light Highway	Tape/Media #: A315-001	pipe length: 253.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0450/1593-0449/1593	Lining Method:
	Category:

Remark::

1:625	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0450		00:00:32	7
	0.00	HSV	Hole Soil Visible, from 3 to 9 o'clock, within 8 inch: NO, Remarks: INSIDE CHANNEL	S 5	00:01:58	8
	4.50	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:03:05	9
	5.00	MWL	Water Level, 5 %, within 8 inch: NO		00:03:36	10
	7.80	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:04:00	11
	13.90	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:04:30	12
	47.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:06:17	13
	54.70	MWL	Water Level, 10 %, within 8 inch: NO		00:06:43	14
	65.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:07:14	15
	67.70	TBA	Tap Break-in Active, at 2 o'clock, 4", within 8 inch: NO		00:08:04	16
	89.40	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:09:05	17
	122.90	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:10:19	18
	131.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:10:54	19
	145.20	RFJ	Roots Fine Joint, from 4 to 9 o'clock, within 8 inch: YES	M 1	00:13:10	20
	145.20	CC	Crack Circumferential, from 8 to 3 o'clock, within 8 inch: YES	S 1	00:13:35	21
	154.70	RFJ	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	M 1	00:15:50	22
	155.50	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:16:46	23
	164.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:17:19	24
	194.80	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:22:52	25
	222.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:23:59	26
	225.10	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:24:24	27
	237.00	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:25:03	28
	248.90	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:25:50	29
	253.50	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0449		00:26:33	30

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5111	1200	6	2	8	3	1	2



Inspection report

Date: 02/02/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Martin Garcia	section number: 446	PSR: 73161
Total Pipe Length: 174.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: HAWTHORNE BV	Flow Control: N Not Controlled	Start MH: 1593-0540
City: LAW	Year Renewed:	End MH: 1593-0454
Location Code: A Main Highway - Urban	Tape/Media #: M315-005	pipe length: 223.4 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0540/1593-0454/1593	Lining Method:
	Category:

Remark::

1:550	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0540		00:00:34	739
	5.00	MWL	Water Level, 15 %, within 8 inch: NO		00:01:24	740
	15.10	CC	Crack Circumferential, from 7 to 3 o'clock, within 8 inch: YES	S 1	00:02:12	741
	16.60	TF	Tap Factory, at 10 o'clock, 6", within 8 inch: NO, Remarks: ROOTS		00:02:56	742
	16.60	RBL	Roots Ball Lateral, at 10 o'clock, 95 %, within 8 inch: NO	M 4	00:03:19	743
	46.40	MWL	Water Level, 10 %, within 8 inch: NO		00:04:35	744
	51.50	CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	S 1	00:05:06	745
	59.10	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:06:38	746
	68.10	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:07:07	747
	84.80	CC	Crack Circumferential, from 10 to 4 o'clock, within 8 inch: YES	S 1	00:07:55	748
	105.70	MWL	Water Level, 15 %, within 8 inch: NO		00:08:50	749
	125.60	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:09:45	750
	126.90	CL	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	S 2	00:10:09	751
	126.90	RFJ	Roots Fine Joint, at 4 o'clock, within 8 inch: YES	M 1	00:10:41	752
	167.80	TFC	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO		00:12:22	753
	179.60	TFC	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO		00:13:05	754
	179.60	MWL	Water Level, 10 %, within 8 inch: NO		00:13:18	755
	187.00	CC	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	S 1	00:13:56	756
	198.20	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:14:46	757
	217.70	CC	Crack Circumferential, from 5 to 9 o'clock, within 8 inch: YES	S 1	00:15:55	758
	218.90	TFC	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO		00:16:41	759
	220.50	CC	Crack Circumferential, from 4 to 8 o'clock, within 8 inch: YES	S 1	00:17:13	760
	223.30	HSV	Hole Soil Visible, from 4 to 8 o'clock, within 8 inch: NO, Remarks: INSIDE MH BOTTOM OF CHANN	S 5	00:18:40	761
	223.40	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0454		00:19:29	762

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	4111	13	5	18	1.62	2.5	1.8



Inspection report

Date: 01/18/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 462	PSR: 73398
Total Pipe Length: 321.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: OSAGE AV	Flow Control: N Not Controlled	Start MH: 1593-0200
City: LAW	Year Renewed:	End MH: 1593-0199
Location Code: C Light Highway	Tape/Media #: M313-001	pipe length: 324.4 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0200/1593-0199/1593	Lining Method:
	Category:

Remark::

1:800	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0200		00:00:43	50
	0.00	VC	Vermin Cockroach, within 8 inch: NO	M 1	00:00:56	51
	0.10	MWL	Water Level, 10 %, within 8 inch: NO		00:01:20	52
	4.30	CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	S 1	00:02:05	53
	26.30	CC	Crack Circumferential, from 7 to 12 o'clock, within 8 inch: YES	S 1	00:03:55	54
	33.50	MWL	Water Level, 20 %, within 8 inch: NO		00:04:36	55
	35.80	CC	Crack Circumferential, from 10 to 2 o'clock, within 8 inch: YES	S 1	00:05:11	56
	57.70	MWL	Water Level, 10 %, within 8 inch: NO		00:06:24	57
	67.00	CC	Crack Circumferential, from 9 to 2 o'clock, within 8 inch: YES	S 1	00:7:10	58
	102.30	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:08:44	59
	138.60	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:12:04	60
	162.20	CL	Crack Longitudinal, at 1 o'clock, within 8 inch: YES	S 2	00:13:05	61
	169.40	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:13:56	62
	187.70	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:14:45	63
	194.30	TBA	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO		00:15:31	64
	217.10	CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	S 1	00:17:01	65
	233.60	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:18:10	66
	253.90	CC	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	S 1	00:19:10	67
	273.60	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:20:32	68
	276.40	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:20:57	69
	290.50	FM	Fracture Multiple, from 2 to 9 o'clock, within 8 inch: YES	S 4	00:23:01	70
	290.50	BVV	Broken Void Visible, from 7 to 9 o'clock, within 8 inch: YES	S 5	00:23:31	71
	309.40	CL	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	S 2	00:24:55	72
	312.20	CC	Crack Circumferential, from 7 to 6 o'clock, within 8 inch: YES	S 1	00:26:11	73
	324.40	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0199		00:27:28	74

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	1100	20	1	21	1.82	1	1.75



Inspection report

Date: 01/18/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 468	PSR: 73280
Total Pipe Length: 323.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: HAWTHORNE BV	Flow Control: N Not Controlled	Start MH: 1593-0330
City: LAW	Year Renewed:	End MH: 1593-0329
Location Code: C Light Highway	Tape/Media #: M313-001	pipe length: 299.1 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0330/1593-0329/1593	Lining Method:
	Category:

Remark::

1:462	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0330		00:00:37	208
	4.00	MWL	Water Level, 10 %, within 8 inch: NO		00:01:13	209
	10.90	CC	Crack Circumferential, from 10 to 5 o'clock, within 8 inch: YES	S 1	00:02:04	210
	14.10	CL	Crack Longitudinal, at 11 o'clock, within 8 inch: YES	S 2	00:03:32	211
	14.10	RFJ	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	M 1	00:04:05	212
	23.20	RFJ	Roots Fine Joint, from 9 to 3 o'clock, within 8 inch: YES	M 1	00:05:05	213
	23.20	CC	Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES	S 1	00:05:13	214
	35.40	RFJ	Roots Fine Joint, from 7 to 2 o'clock, within 8 inch: YES	M 1	00:06:24	215
	50.80	RFJ	Roots Fine Joint, at 1 o'clock, within 8 inch: YES	M 1	00:07:28	216
	56.80	RFJ	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	M 1	00:08:22	217
	66.00	CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	S 1	00:09:25	218
	66.00	S1 RFJ	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Remarks: CONTINOUS ROOTS, Start	M 1	00:09:46	219
	75.10	CC	Crack Circumferential, from 11 to 2 o'clock, within 8 inch: YES	S 1	00:11:20	220
	76.00	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:11:55	221
	76.00	CL	Crack Longitudinal, at 9 o'clock, within 8 inch: NO	S 2	00:12:09	222
	92.80	CC	Crack Circumferential, from 7 to 2 o'clock, within 8 inch: YES	S 1	00:13:53	223
	98.90	H	Hole, from 7 to 9 o'clock, within 8 inch: YES, Remarks: HOLE AT JOINT	S 4	00:15:20	224
	98.90	CC	Crack Circumferential, from 12 to 9 o'clock, within 8 inch: YES	S 1	00:16:15	225
	111.00	MGO	General Observation, within 8 inch: NO, Remarks: ROOTS STILL CONTINOUS		00:17:45	226
	114.30	CC	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	S 1	00:18:19	227
	117.30	S3 CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, Remarks: CRACKS CONTINOUS, Start	S 1	00:18:55	228
	142.50	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:20:59	229
	163.70	TFC	Tap Factory Capped, at 9 o'clock, 4", within 8 inch: NO		00:22:11	230
	189.60	MGO	General Observation, within 8 inch: NO, Remarks: ROOTS STILL CONTINOUS		00:23:42	231



Inspection report

Date: 01/18/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 468	PSR: 73280
Total Pipe Length: 323.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:462	position	code	observation	grade	MPEG	photo
	<u>201.90</u>	F3	CC Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, Remarks: CRACKS CONTINOUS, End	S 1	00:24:15	232
	<u>211.80</u>		TFA Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:24:46	233
	<u>238.10</u>		CL Crack Longitudinal, at 10 o'clock, within 8 inch: YES	S 2	00:26:25	234
	<u>240.90</u>		CC Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	S 1	00:27:09	235
	<u>265.50</u>		CL Crack Longitudinal, at 7 o'clock, within 8 inch: YES	S 2	00:28:55	236
	<u>268.20</u>		CC Crack Circumferential, from 3 to 9 o'clock, within 8 inch: YES	S 1	00:29:36	237
	<u>271.40</u>		CC Crack Circumferential, from 3 to 9 o'clock, within 8 inch: YES	S 1	00:30:17	238
	<u>283.90</u>		CC Crack Circumferential, from 5 to 10 o'clock, within 8 inch: YES	S 1	00:31:50	239
	<u>297.50</u>	F1	RFJ Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Remarks: CONTINOUS ROOTS, End	M 1	00:33:01	240
	<u>299.10</u>		AMH Manhole, within 8 inch: NO, Remarks: 1593-0329		00:33:26	241



Inspection report

Date: 01/19/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 471	PSR: 73589
Total Pipe Length: 339.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: AVIS AV	Flow Control: N Not Controlled	Start MH: 1593-0187
City: LAW	Year Renewed:	End MH: 1593-0007
Location Code: C Light Highway	Tape/Media #: M313-002	pipe length: 305.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0187/1593-0007/1593	Lining Method:
	Category:

Remark::

1:750	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0187		00:00:36	304
	0.00	VC	Vermin Cockroach, within 8 inch: NO	M 1	00:00:48	305
	6.20	TFC	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO		00:02:22	306
	15.10	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:02:57	307
	19.10	MWL	Water Level, 5 %, within 8 inch: NO		00:03:19	308
	36.50	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:03:58	309
	114.10	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:06:09	310
	117.00	TFC	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO		00:06:33	311
	150.50	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:07:43	312
	164.50	CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	S 1	00:08:55	313
	171.50	TFC	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO		00:09:39	314
	199.40	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:10:40	315
	199.40	BSV	Broken Soil Visible, at 9 o'clock, within 8 inch: NO, Remarks: lateral has broken pipe	S 5	00:11:11	316
	239.30	TFC	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO		00:12:44	317
	263.90	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:13:38	318
	302.80	CC	Crack Circumferential, from 4 to 8 o'clock, within 8 inch: YES	S 1	00:15:19	319
	305.80	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0007		00:16:12	320

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5112	1100	7	1	8	2.33	1	2



Inspection report

Date: 01/25/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: GILBERT CONTRERAS	section number: 519	PSR: 73112
Total Pipe Length: 280.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: SOMBRA AV	Flow Control: N Not Controlled	Start MH: 1593-0530
City: LAW	Year Renewed:	End MH: 1593-0531
Location Code: C Light Highway	Tape/Media #: G313-006	pipe length: 241.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0530/1593-0531/1593	Lining Method:
	Category:

Remark::

1:363	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0530		00:00:34	1385
	6.00	MWL	Water Level, 10 %, within 8 inch: NO		00:01:27	1386
	20.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:02:07	1387
	23.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:02:37	1388
	33.60	CM	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 3	00:03:46	1389
	36.30	CM	Crack Multiple, from 3 to 9 o'clock, within 8 inch: YES	S 3	00:04:33	1390
	46.70	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:05:16	1391
	49.30	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:05:38	1392
	53.60	S1	RPR Repair Point, from 7 to 6 o'clock, within 8 inch: NO, Remarks: new pipe, Start		00:06:27	1393
	53.60	H	Hole, from 4 to 6 o'clock, within 8 inch: YES	S 4	00:07:06	1394
	59.40	F1	RPR Repair Point, from 7 to 6 o'clock, within 8 inch: NO, Remarks: new pipe, End		00:08:14	1395
	71.80	CC	Crack Circumferential, from 7 to 6 o'clock, within 8 inch: YES	S 1	00:09:02	1396
	80.80	S2	CM Crack Multiple, from 7 to 6 o'clock, within 8 inch: YES, Start	S 3	00:09:58	1397
	85.20	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:10:39	1398
	87.70	TFD	Tap Factory Defective, at 9 o'clock, 6", within 8 inch: NO, Remarks: fracture longitudinal	M 2	00:11:31	1399
	104.30	S3	RPR Repair Point, from 7 to 6 o'clock, within 8 inch: NO, Remarks: new pipe, Start		00:12:47	1400
	104.30	F2	CM Crack Multiple, from 7 to 6 o'clock, within 8 inch: YES, End	S 3	00:12:59	1401
	107.50	F3	RPR Repair Point, from 7 to 6 o'clock, within 8 inch: NO, Remarks: new pipe, End		00:13:40	1402
	116.70	S4	RPR Repair Point, from 7 to 6 o'clock, within 8 inch: NO, Remarks: new pipe, Start		00:14:29	1403
	119.60	CM	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	S 3	00:14:57	1404
	122.90	F4	RPR Repair Point, from 7 to 6 o'clock, within 8 inch: NO, Remarks: new pipe, End		00:15:24	1405
	124.20	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:15:39	1406
	126.60	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:16:04	1407



Inspection report

Date: 01/25/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: GILBERT CONTRERAS	section number: 519	PSR: 73112
Total Pipe Length: 280.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:363	position	code	observation	grade	MPEG	photo
	155.50	S5 CM	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	S 3	00:17:28	1408
	156.80	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:17:59	1409
	159.30	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:18:19	1410
	180.10	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:20:19	1411
	182.70	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:20:54	1412
	193.00	F5 CM	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	S 3	00:21:27	1413
	212.80	MWL	Water Level, 15 %, within 8 inch: NO		00:22:16	1414
	221.90	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:22:46	1415
	224.60	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:23:15	1416
	241.50	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0531		00:24:22	1417



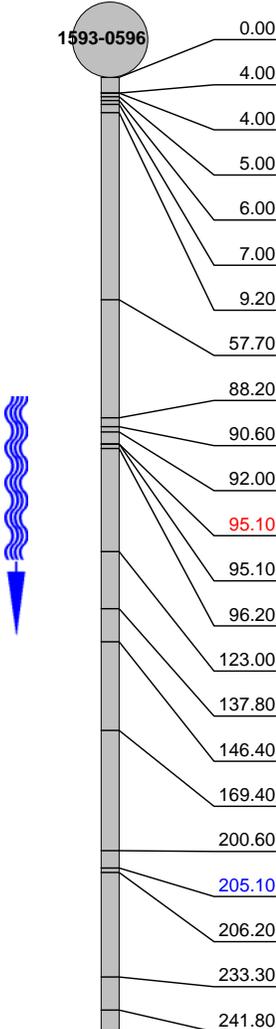
Inspection report

Date: 02/07/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 630	PSR: 73046
Total Pipe Length: 318.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 163RD ST	Flow Control: N Not Controlled	Start MH: 1593-0596
City: LAW	Year Renewed	End MH: 1593-0595
Location Code: C Light Highway	Tape/Media #: M313-014	pipe length: 339 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0596/1593-0595/1593	Lining Method:
	Category:

Remark::

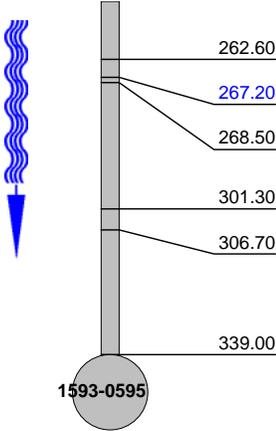
1:594	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0596		00:00:28	3448
	4.00	CC	Crack Circumferential, from 7 to 2 o'clock, within 8 inch: YES	S 1	00:01:27	3449
	4.00	RFJ	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	M 1	00:01:45	3450
	5.00	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:02:31	3451
	6.00	CC	Crack Circumferential, from 3 to 7 o'clock, within 8 inch: YES	S 1	00:3:10	3452
	7.00	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:03:38	3453
	9.20	MWL	Water Level, 5 %, within 8 inch: NO		00:03:51	3454
	57.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:05:27	3455
	88.20	TBA	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO		00:06:29	3456
	90.60	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:06:52	3457
	92.00	RFJ	Roots Fine Joint, from 12 to 6 o'clock, within 8 inch: YES	M 1	00:07:23	3458
	95.10	H	Hole, from 11 to 1 o'clock, within 8 inch: YES	S 5	00:08:14	3459
	95.10	CC	Crack Circumferential, from 11 to 5 o'clock, within 8 inch: YES	S 1	00:08:34	3460
	96.20	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:09:29	3461
	123.00	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:10:28	3462
	137.80	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:11:06	3463
	146.40	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:11:34	3464
	169.40	CC	Crack Circumferential, from 8 to 4 o'clock, within 8 inch: YES	S 1	00:12:41	3465
	200.60	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:14:07	3466
	205.10	CL	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	S 2	00:14:31	3467
	206.20	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:15:11	3468
	233.30	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:16:14	3469
	241.80	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:16:43	3470



Inspection report

Date: 02/07/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 630	PSR: 73046
Total Pipe Length: 318.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/05/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:594	position	code	observation	grade	MPEG	photo
	262.60	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:17:33	3471
	267.20	CL	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	S 2	00:18:12	3472
	268.50	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:18:45	3473
	301.30	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:20:01	3474
	306.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:20:32	3475
	339.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0595		00:21:54	3476



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5122	1200	13	2	15	1.86	1	1.67



Inspection report

Date: 02/08/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 648	PSR: 72953
Total Pipe Length: 300.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/06/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: 0	Flow Control: N Not Controlled	Start MH: 1593-0623
City: LAW	Year Renewed	End MH: 1593-0624
Location Code: D Easement/Right of Way	Tape/Media #: M313-015	pipe length: 303 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0624/1593-0623/1593	Lining Method:
	Category:

Remark::

1:750	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0623 buried mh-heavy		00:00:39	3881
	3.60	MWL	Water Level, 5 %, within 8 inch: NO		00:01:02	3882
	23.50	TFA	Tap Factory Active, at 11 o'clock, 4", within 8 inch: NO		00:01:45	3883
	50.20	TFA	Tap Factory Active, at 1 o'clock, 4", within 8 inch: NO		00:02:41	3884
	74.60	TFA	Tap Factory Active, at 11 o'clock, 4", within 8 inch: NO		00:03:41	3885
	89.40	TFA	Tap Factory Active, at 1 o'clock, 4", within 8 inch: NO		00:04:21	3886
	117.70	BVV	Broken Void Visible, from 10 to 12 o'clock, within 8 inch: YES, Remarks: broken pipe	S 5	00:05:58	3887
	119.80	TFA	Tap Factory Active, at 11 o'clock, 6", within 8 inch: NO		00:06:30	3888
	125.20	TFC	Tap Factory Capped, at 1 o'clock, 4", within 8 inch: NO		00:06:53	3889
	127.80	TBA	Tap Break-in Active, at 2 o'clock, 6", within 8 inch: NO		00:07:10	3890
	158.20	TFA	Tap Factory Active, at 1 o'clock, 4", within 8 inch: NO		00:08:12	3891
	158.20	RFL	Roots Fine Lateral, at 1 o'clock, within 8 inch: NO	M 1	00:08:23	3892
	161.00	TFA	Tap Factory Active, at 11 o'clock, 4", within 8 inch: NO		00:08:42	3893
	190.70	TFA	Tap Factory Active, at 1 o'clock, 4", within 8 inch: NO		00:09:45	3894
	197.40	TBA	Tap Break-in Active, at 12 o'clock, 6", within 8 inch: NO		00:10:20	3895
	199.60	TFA	Tap Factory Active, at 11 o'clock, 4", within 8 inch: NO		00:10:45	3896
	226.50	TBA	Tap Break-in Active, at 11 o'clock, 4", within 8 inch: NO		00:11:48	3897
	241.30	TFA	Tap Factory Active, at 1 o'clock, 4", within 8 inch: NO		00:12:29	3898
	271.70	TFA	Tap Factory Active, at 11 o'clock, 4", within 8 inch: NO		00:13:34	3899
	277.40	TFA	Tap Factory Active, at 1 o'clock, 4", within 8 inch: NO		00:13:59	3900
	303.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0624		00:15:17	3901

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	1100	5	1	6	5	1	3



Inspection report

Date: 02/12/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 684	PSR: 73241
Total Pipe Length: 261.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/09/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: MARINE AV	Flow Control: N Not Controlled	Start MH: 1593-0429
City: LAW	Year Renewed:	End MH: 1593-0409
Location Code: A Main Highway - Urban	Tape/Media #: M313-017	pipe length: 279.5 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0429/1593-0409/1593	Lining Method:
	Category:

Remark::

1:594	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0429		00:00:30	4686
	6.00	MWL	Water Level, 10 %, within 8 inch: NO		00:01:55	4687
	8.00	TBA	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO		00:02:10	4688
	25.60	CC	Crack Circumferential, from 7 to 11 o'clock, within 8 inch: YES	S 1	00:02:53	4689
	26.30	TFC	Tap Factory Capped, at 2 o'clock, 6", within 8 inch: NO		00:03:22	4690
	44.40	TFC	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO		00:04:07	4691
	56.60	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:04:46	4692
	87.40	TFA	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO		00:05:50	4693
	90.30	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:06:14	4694
	121.60	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:07:23	4695
	125.90	CC	Crack Circumferential, from 4 to 10 o'clock, within 8 inch: YES	S 1	00:07:51	4696
	130.30	TF	Tap Factory, at 10 o'clock, 6", within 8 inch: NO		00:08:25	4697
	151.70	TFA	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO		00:09:16	4698
	164.60	TBA	Tap Break-in Active, at 11 o'clock, 6", within 8 inch: NO		00:09:54	4699
	175.00	CC	Crack Circumferential, from 2 to 6 o'clock, within 8 inch: YES	S 1	00:10:37	4700
	176.50	TBC	Tap Break-in Capped, at 2 o'clock, 6", within 8 inch: NO	M 2	00:11:06	4701
	194.90	TFA	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO		00:11:53	4702
	201.00	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:12:19	4703
	205.60	CC	Crack Circumferential, from 8 to 12 o'clock, within 8 inch: YES	S 1	00:12:48	4704
	212.90	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:13:25	4705
	239.40	CC	Crack Circumferential, from 11 to 5 o'clock, within 8 inch: YES	S 1	00:14:48	4706
	240.30	TF	Tap Factory, at 2 o'clock, 6", within 8 inch: NO		00:15:18	4707



Inspection report

Date: 02/12/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 684	PSR: 73241
Total Pipe Length: 261.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/09/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

1:594	position	code	observation	grade	MPEG	photo
	249.30	TFC	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO		00:15:51	4708
	<u>257.20</u>	B	Broken, from 2 to 4 o'clock, within 8 inch: YES	S 4	00:16:32	4709
	257.20	CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	S 1	00:16:46	4710
	261.20	MWL	Water Level, 15 %, within 8 inch: NO		00:17:22	4711
	266.60	CC	Crack Circumferential, from 8 to 5 o'clock, within 8 inch: YES	S 1	00:17:45	4712
	269.80	CC	Crack Circumferential, from 8 to 10 o'clock, within 8 inch: YES	S 1	00:18:14	4713
	279.50	VC	Vermin Cockroach, within 8 inch: NO	M 1	00:19:21	4714
	279.50	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0409		00:19:39	4715

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4118	2111	12	3	15	1.33	1.5	1.36



Inspection report

Date: 03/12/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: MARTIN GARCIA	section number: 814	PSR: 73139
Total Pipe Length: 314.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 03/06/2007	Pre-Cleaned: J Jetting	Map Grid #: 1593

Street: INGLEWOOD AV	Flow Control: N Not Controlled	Start MH: 1593-0432
City: LAW	Year Renewed:	End MH: 1593-0431
Location Code: A Main Highway - Urban	Tape/Media #: M313-028	pipe length: 225.4 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0432/1593-0431/1593	Lining Method:
	Category:

Remark::

1:550	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0432		00:00:33	7452
	5.00	CC	Crack Circumferential, from 10 to 1 o'clock, within 8 inch: YES	S 1	00:01:37	7453
	6.00	MWL	Water Level, 5 %, within 8 inch: NO		00:02:34	7454
	7.80	CC	Crack Circumferential, from 12 to 2 o'clock, within 8 inch: YES	S 1	00:02:49	7455
	10.70	CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	S 1	00:03:09	7456
	11.70	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:03:49	7457
	11.80	CC	Crack Circumferential, from 6 to 6 o'clock, within 8 inch: NO, Remarks: IN LATERAL	S 1	00:04:27	7458
	16.30	S1 CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, Start	S 1	00:04:54	7459
	51.60	TFA	Tap Factory Active, at 10 o'clock, 6", within 8 inch: NO		00:06:42	7460
	82.60	TFC	Tap Factory Capped, at 10 o'clock, 6", within 8 inch: NO		00:08:05	7461
	202.70	B	Broken, from 3 to 4 o'clock, within 8 inch: YES	S 3	00:14:14	7462
	208.90	BVV	Broken Void Visible, from 10 to 1 o'clock, within 8 inch: YES	S 5	00:15:33	7463
	212.80	MWL	Water Level, 15 %, within 8 inch: NO		00:16:06	7464
	224.60	F1 CC	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES, End	S 1	00:16:35	7465
	225.40	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0431		00:16:54	7466

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	0000	64	0	64	1.1	0	1.1



Inspection report

Date: 01/16/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 827	PSR: 73227
Total Pipe Length: 350.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #:

Street: 145TH ST	Flow Control: N Not Controlled	Start MH: 1593-0398
City: LAW	Year Renewed:	End MH: 1593-0397
Location Code: C Light Highway	Tape/Media #: R311-001	pipe length: 349.6 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0398/-1593/-0397/-1593	Lining Method:
	Category:

Remark::

1:462	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0398		00:00:52	98
	5.90	CC	Crack Circumferential, from 8 to 9 o'clock, within 8 inch: YES	S 1	00:02:11	99
	7.00	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:02:49	100
	8.30	MWL	Water Level, 5 %, within 8 inch: NO		00:03:06	101
	11.60	CM	Crack Multiple, from 2 to 5 o'clock, within 8 inch: YES	S 3	00:03:41	102
	30.00	CM	Crack Multiple, from 2 to 4 o'clock, within 8 inch: YES	S 3	00:05:00	103
	37.10	TFA	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO		00:05:59	104
	38.60	CM	Crack Multiple, from 6 to 9 o'clock, within 8 inch: YES	S 3	00:06:25	105
	39.70	TFA	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO		00:07:01	106
	81.00	CM	Crack Multiple, from 10 to 12 o'clock, within 8 inch: YES	S 3	00:09:07	107
	91.80	TBA	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO		00:10:16	108
	98.90	S1 RFJ	Roots Fine Joint, at 6 o'clock, within 8 inch: YES, Start	M 1	00:12:00	109
	104.60	F1 RFJ	Roots Fine Joint, at 6 o'clock, within 8 inch: YES, End	M 1	00:13:33	110
	111.40	CM	Crack Multiple, from 7 to 9 o'clock, within 8 inch: YES	S 3	00:14:51	111
	113.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:15:48	112
	118.30	TFC	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO		00:16:20	113
	120.70	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:16:42	114
	122.30	CM	Crack Multiple, from 3 to 9 o'clock, within 8 inch: YES	S 3	00:18:29	115
	150.90	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:20:12	116
	155.20	CL	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	S 2	00:20:55	117
	161.40	CL	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	S 2	00:21:42	118
	162.50	TFA	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO		00:22:21	119



Inspection report

Date: 01/16/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 827	PSR: 73227
Total Pipe Length: 350.00	Survey Customer: LAW	System Owner: LAW	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #:

1:462	position	code	observation	grade	MPEG	photo
	<u>206.20</u>	S2	CL Crack Longitudinal, at 4 o'clock, within 8 inch: YES, Start	S 2	00:24:31	120
	<u>207.50</u>	TFA	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO		00:25:08	121
	<u>208.20</u>	F2	CL Crack Longitudinal, at 4 o'clock, within 8 inch: YES, End	S 2	00:25:54	122
	<u>211.90</u>	CL	Crack Longitudinal, at 7 o'clock, within 8 inch: YES	S 2	00:26:42	123
	<u>245.60</u>	BSV	Broken Soil Visible, from 4 to 6 o'clock, within 8 inch: YES	S 5	00:30:01	124
	<u>287.60</u>	CM	Crack Multiple, from 4 to 9 o'clock, within 8 inch: YES	S 3	00:32:53	125
	<u>349.60</u>	AMH	Manhole, within 8 inch: NO, Remarks: 1593-0397 End Run		00:36:17	126

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5137	1100	35	1	36	2.69	1	2.57



Inspection report

Date: 02/07/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1021	PSR: 72767
Total Pipe Length: 348.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/06/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

Street: ALLEY	Flow Control: N Not Controlled	Start MH: 1594-0099
City: LAW	Year Renewed:	End MH: 1594-0100
Location Code: C Light Highway	Tape/Media #: R311-017	pipe length: 350.1 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0099/1594-0100/1594	Lining Method:
	Category:

Remark::

1:528	position	code	observation	grade	MPEG	photo
	0.10	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0099		00:00:40	3965
	4.00	BSV	Broken Soil Visible, from 6 to 7 o'clock, within 8 inch: NO	S 5	00:01:51	3966
	4.50	BSV	Broken Soil Visible, at 1 o'clock, within 8 inch: NO	S 5	00:03:13	3967
	4.50	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:03:52	3968
	7.30	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:04:27	3969
	8.20	MWL	Water Level, 5 %, within 8 inch: NO		00:04:41	3970
	11.40	MGO	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'		00:05:05	3971
	31.10	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:06:00	3972
	33.60	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:06:30	3973
	48.50	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:07:09	3974
	72.40	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:08:02	3975
	93.20	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:08:52	3976
	108.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:09:33	3977
	119.80	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:10:07	3978
	137.50	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:10:56	3979
	146.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:11:28	3980
	181.20	CL	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	S 2	00:12:40	3981
	185.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:13:16	3982
	189.80	CL	Crack Longitudinal, at 11 o'clock, within 8 inch: YES	S 2	00:13:38	3983
	209.30	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:14:47	3984
	214.90	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:15:10	3985
	219.40	CC	Crack Circumferential, from 3 to 4 o'clock, within 8 inch: YES	S 1	00:16:10	3986
	219.40	CL	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	S 2	00:15:36	3987



Inspection report

Date: 02/07/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1021	PSR: 72767
Total Pipe Length: 348.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/06/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

1:528	position	code	observation	grade	MPEG	photo
	229.60	TFB	Tap Factory Abandoned, at 9 o'clock, 6", within 8 inch: NO		00:16:57	3988
	235.10	TFB	Tap Factory Abandoned, at 3 o'clock, 6", within 8 inch: NO		00:17:24	3989
	262.00	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:18:26	3990
	265.60	CM	Crack Multiple, from 10 to 4 o'clock, within 8 inch: NO	S 3	00:19:18	3991
	266.70	BSV	Broken Soil Visible, from 7 to 8 o'clock, within 8 inch: YES	S 5	00:20:16	3992
	267.40	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:20:48	3993
	272.00	CL	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	S 2	00:21:11	3994
	291.30	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:22:14	3995
	298.80	CC	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	S 1	00:22:49	3996
	309.30	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:23:37	3997
	336.10	TFB	Tap Factory Abandoned, at 3 o'clock, 6", within 8 inch: NO		00:24:42	3998
	343.80	CL	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	S 2	00:25:18	3999
	343.80	CL	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	S 2	00:25:50	4000
	350.10	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0100		00:26:42	4001



Inspection report

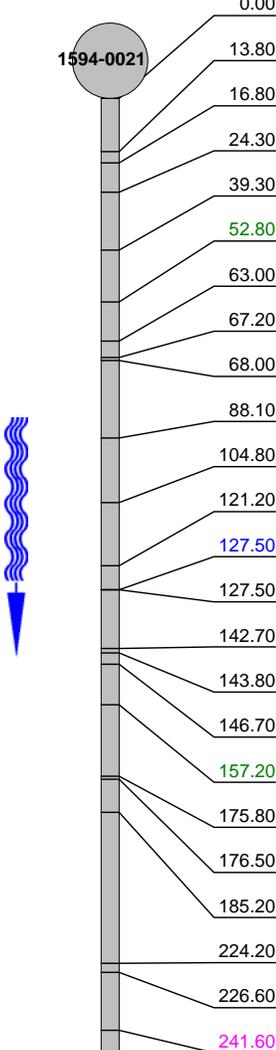
Date: 02/09/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1043	PSR: 72934
Total Pipe Length: 259.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

Street: 168TH ST	Flow Control: N Not Controlled	Start MH: 1594-0021
City: LAW	Year Renewed:	End MH: 1594-0022
Location Code: C Light Highway	Tape/Media #: R311-019	pipe length: 339.4 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0021/1594-0022/1594	Lining Method:
	Category:

Remark::

1:594	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0021		00:00:40	4540
	13.80	MWL	Water Level, 5 %, within 8 inch: NO		00:01:45	4541
	16.80	MGO	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'		00:02:14	4542
	24.30	TFA	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO		00:02:46	4543
	39.30	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:03:29	4544
	52.80	CM	Crack Multiple, from 2 to 6 o'clock, within 8 inch: YES	S 3	00:04:22	4545
	63.00	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:05:19	4546
	67.20	RFJ	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	M 1	00:05:43	4547
	68.00	TFA	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO		00:06:19	4548
	88.10	RFJ	Roots Fine Joint, at 4 o'clock, within 8 inch: YES	M 1	00:07:07	4549
	104.80	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:08:02	4550
	121.20	S1 RFJ	Roots Fine Joint, at 4 o'clock, within 8 inch: YES, Start	M 1	00:08:46	4551
	127.50	CL	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	S 2	00:10:01	4552
	127.50	F1 RFJ	Roots Fine Joint, at 4 o'clock, within 8 inch: YES, End	M 1	00:09:27	4553
	142.70	RFJ	Roots Fine Joint, from 4 to 9 o'clock, within 8 inch: YES	M 1	00:10:54	4554
	143.80	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:11:26	4555
	146.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:11:44	4556
	157.20	CM	Crack Multiple, from 3 to 10 o'clock, within 8 inch: YES	S 3	00:12:35	4557
	175.80	RFJ	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	M 1	00:13:37	4558
	176.50	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:14:06	4559
	185.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:14:36	4560
	224.20	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:16:38	4561
	226.60	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:17:09	4562
	241.60	FM	Fracture Multiple, from 3 to 9 o'clock, within 8 inch: YES	S 4	00:25:47	4563



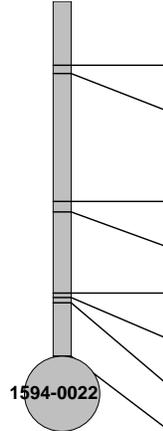


Inspection report

Date: 02/09/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1043	PSR: 72934
Total Pipe Length: 259.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

1:594	position	code	observation	grade	MPEG	photo
	<u>264.10</u>	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:27:04	4564
	<u>266.30</u>	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:27:24	4565
	<u>299.30</u>	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:28:42	4566
	<u>302.00</u>	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:29:03	4567
	<u>323.10</u>	TFC	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO		00:30:00	4568
	<u>324.20</u>	CL	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	S 2	00:30:46	4569
	<u>325.70</u>	TFC	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO		00:31:21	4570
	<u>339.40</u>	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0022		00:32:11	4571

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	1600	14	6	20	2.8	1	1.82





Inspection report

Date: 02/09/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1049	PSR: 72915
Total Pipe Length: 109.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/08/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

Street: 166TH ST	Flow Control: N Not Controlled	Start MH: 1594-0003
City: LAW	Year Renewed:	End MH: 1594-0004
Location Code: C Light Highway	Tape/Media #: R311-019	pipe length: 121.7 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0003/1594-0004/1594	Lining Method:
	Category:

Remark::

1:300	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0003		00:00:44	4711
	6.00	MWL	Water Level, 10 %, within 8 inch: NO		00:01:47	4712
	12.70	MGO	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'		00:02:23	4713
	22.20	CC	Crack Circumferential, from 12 to 11 o'clock, within 8 inch: NO	S 1	00:03:29	4714
	27.20	MWL	Water Level, 35 %, within 8 inch: NO		00:04:15	4715
	40.60	MWL	Water Level, 15 %, within 8 inch: NO		00:04:57	4716
	40.90	CC	Crack Circumferential, from 12 to 11 o'clock, within 8 inch: NO	S 1	00:05:30	4717
	44.30	CM	Crack Multiple, from 9 to 3 o'clock, within 8 inch: YES	S 3	00:06:28	4718
	48.40	MWL	Water Level, 35 %, within 8 inch: NO		00:07:08	4719
	50.10	CM	Crack Multiple, from 10 to 3 o'clock, within 8 inch: YES	S 3	00:07:36	4720
	56.60	CM	Crack Multiple, from 2 to 4 o'clock, within 8 inch: YES	S 3	00:08:44	4721
	60.00	B	Broken, from 10 to 2 o'clock, within 8 inch: YES, Remarks: Broken Joint	S 5	00:10:20	4722
	65.80	B	Broken, from 9 to 3 o'clock, within 8 inch: YES, Remarks: Broken Joint	S 5	00:12:46	4723
	68.80	B	Broken, from 9 to 11 o'clock, within 8 inch: YES, Remarks: Broken Joint	S 4	00:14:39	4724
	76.50	MWL	Water Level, 20 %, within 8 inch: NO		00:15:47	4725
	84.50	B	Broken, from 10 to 1 o'clock, within 8 inch: YES	S 4	00:16:49	4726
	115.40	CM	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	S 3	00:18:32	4727
	121.70	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0004		00:19:26	4728

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5242	0000	32	0	32	3.2	0	3.2



Inspection report

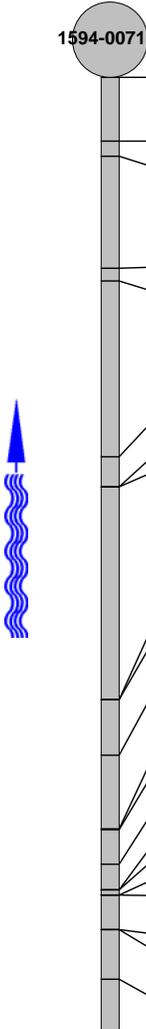
Date: 02/13/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1062	PSR: 72862
Total Pipe Length: 236.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/13/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

Street: 172ND ST	Flow Control: N Not Controlled	Start MH: 1594-0071
City: LAW	Year Renewed:	End MH: 1594-0070
Location Code: C Light Highway	Tape/Media #: R311-021	pipe length: 215.9 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0070/1594-0071/1594	Lining Method:
	Category:

Remark::

1:429	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0071		00:00:43	4904
	12.00	MWL	Water Level, 5 %, within 8 inch: NO		00:01:41	4905
	14.80	MGO	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'		00:02:11	4906
	35.70	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:03:02	4907
	38.10	TFA	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO		00:03:21	4908
	71.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:04:36	4909
	76.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:05:01	4910
	76.70	RBL	Roots Ball Lateral, at 3 o'clock, 65 %, within 8 inch: NO	M 4	00:05:22	4911
	116.50	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:07:10	4912
	116.50	RML	Roots Medium Lateral, at 9 o'clock, 30 %, within 8 inch: NO	M 3	00:07:30	4913
	127.00	TFA	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO		00:08:33	4914
	140.80	RMJ	Roots Medium Joint, from 1 to 3 o'clock, 25 %, within 8 inch: YES	M 3	00:09:26	4915
	140.90	CM	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	S 3	00:10:08	4916
	147.40	RFJ	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	M 1	00:10:51	4917
	152.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:11:32	4918
	152.20	CC	Crack Circumferential, from 11 to 7 o'clock, within 8 inch: NO	S 1	00:12:22	4919
	153.10	RFJ	Roots Fine Joint, from 9 to 3 o'clock, within 8 inch: YES	M 1	00:12:56	4920
	153.10	CM	Crack Multiple, from 7 to 1 o'clock, within 8 inch: YES	S 3	00:13:43	4921
	159.60	RFJ	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	M 1	00:14:30	4922
	159.60	CC	Crack Circumferential, from 4 to 7 o'clock, within 8 inch: YES	S 1	00:15:10	4923
	168.90	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:15:57	4924



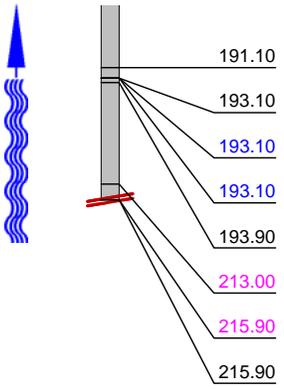


Inspection report

Date: 02/13/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1062	PSR: 72862
Total Pipe Length: 236.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/13/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

1:429	position	code	observation	grade	MPEG	photo
	<u>191.10</u>	TFA	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO		00:16:58	4925
	<u>193.10</u>	JOM	Joint Offset Medium, within 8 inch: NO	S 1	00:17:39	4926
	<u>193.10</u>	CL	Crack Longitudinal, at 9 o'clock, within 8 inch: YES	S 2	00:18:08	4927
	<u>193.10</u>	CL	Crack Longitudinal, at 2 o'clock, within 8 inch: YES	S 2	00:18:36	4928
	<u>193.90</u>	TFA	Tap Factory Active, at 12 o'clock, 6", within 8 inch: NO		00:19:12	4929
	<u>213.00</u>	FM	Fracture Multiple, from 5 to 12 o'clock, within 8 inch: YES	S 4	00:20:38	4930
	<u>215.90</u>	FM	Fracture Multiple, from 5 to 11 o'clock, within 8 inch: YES	S 4	00:21:51	4931
	<u>215.90</u>	MSA	Abandoned Survey, within 8 inch: NO, Remarks: Due To Fracture Multiple		00:22:50	4932

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4232	4132	21	13	34	2.33	2.17	2.27





Inspection report

Date: 02/13/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1064	PSR: 72863
Total Pipe Length: 342.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/13/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

Street: 172ND ST	Flow Control: N Not Controlled	Start MH: 1594-0071
City: LAW	Year Renewed	End MH: 1594-0072
Location Code: C Light Highway	Tape/Media #: R311-021	pipe length: 216 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0071/1594-0072/1594	Lining Method:
	Category:

Remark::

1:550	position	code	observation	grade	MPEG	photo
	0.10	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0071		00:00:52	4946
	7.80	MWL	Water Level, 5 %, within 8 inch: NO		00:01:49	4947
	11.00	B	Broken, from 2 to 5 o'clock, within 8 inch: YES, Remarks: Broken Joint	S 5	00:03:01	4948
	41.80	RFJ	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	M 1	00:04:39	4949
	50.70	RFJ	Roots Fine Joint, from 8 to 10 o'clock, within 8 inch: YES	M 1	00:06:27	4950
	52.20	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:06:58	4951
	54.50	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:07:17	4952
	71.30	RFJ	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	M 1	00:08:06	4953
	90.00	S1	RFJ Roots Fine Joint, at 10 o'clock, within 8 inch: YES, Start	M 1	00:09:11	4954
	91.10	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:09:28	4955
	93.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:09:53	4956
	94.90	F1	RFJ Roots Fine Joint, at 10 o'clock, within 8 inch: YES, End	M 1	00:10:09	4957
	139.50	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:12:00	4958
	140.50	S2	RFJ Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES, Start	M 1	00:12:23	4959
	141.70	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:12:58	4960
	143.30	F2	RFJ Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES, End	M 1	00:13:14	4961
	175.50	TFA	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO		00:14:44	4962
	180.90	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:15:09	4963
	195.90	TFA	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO		00:15:51	4964
	216.00	AMH	Manhole, within 8 inch: NO, Remarks: 1594-0072		00:16:56	4965

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	1500	5	5	10	5	1	1.67



Inspection report

Date: 02/14/2007	P.O.#: Y0TV0607A	Weather: 1 Dry	Surveyed By: Rigo Alvarez	section number: 1079	PSR: 72870A
Total Pipe Length: 192.00	Survey Customer: LAW	System Owner: LAW	Clean Date: 02/13/2007	Pre-Cleaned: J Jetting	Map Grid #: 1594

Street: 172ND ST	Flow Control: N Not Controlled	Start MH: 1594-0076A
City: LAW	Year Renewed	End MH: 1594-0077
Location Code: C Light Highway	Tape/Media #: R311-022	pipe length: 134.6 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8"
Use of Sewer: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Length:
Drain. Area: 0076A/1594-0077/1594	Lining Method:
	Category:

Remark::

1:350	position	code	observation	grade	MPEG	photo
	0.00	AMH	Manhole, within 8 inch: NO, Remarks: Undocumented Mh 1595-0076		00:01:11	5273
	0.00	S1	DAGS Deposits Attached Grease, from 9 to 3 o'clock, 15 %, within 8 inch: NO, Start	M 3	00:01:55	5274
	4.50	F1	DAGS Deposits Attached Grease, from 9 to 3 o'clock, 15 %, within 8 inch: NO, End	M 3	00:03:00	5275
	9.30	MWL	Water Level, 10 %, within 8 inch: NO		00:03:34	5276
	11.80	MGO	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'		00:04:01	5277
	14.80	S2	DAGS Deposits Attached Grease, from 10 to 2 o'clock, 10 %, within 8 inch: NO, Start	M 2	00:04:27	5278
	20.50	DAGS	Deposits Attached Grease, from 9 to 3 o'clock, 30 %, within 8 inch: NO	M 4	00:05:09	5279
	53.40	F2	DAGS Deposits Attached Grease, from 10 to 2 o'clock, 10 %, within 8 inch: NO, End	M 2	00:09:37	5280
	78.90	DAGS	Deposits Attached Grease, from 11 to 1 o'clock, 5 %, within 8 inch: NO	M 2	00:11:04	5281
	85.50	HSV	Hole Soil Visible, at 2 o'clock, within 8 inch: YES	S 5	00:12:16	5282
	85.70	CL	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	S 2	00:13:05	5283
	91.50	DAGS	Deposits Attached Grease, from 11 to 1 o'clock, 5 %, within 8 inch: YES	M 2	00:13:51	5284
	100.90	DAGS	Deposits Attached Grease, from 10 to 2 o'clock, 5 %, within 8 inch: YES	M 2	00:14:52	5285
	107.30	MWL	Water Level, 40 %, within 8 inch: NO		00:15:40	5286
	116.80	MCU	Camera Underwater, within 8 inch: NO	M 4	00:16:55	5287
	132.80	MGO	General Observation, within 8 inch: NO, Remarks: Camera Out Of Water		00:18:51	5288
	134.60	B	Broken, from 4 to 6 o'clock, within 8 inch: NO, Remarks: Broken Pipe Under Water	S 4	00:29:00	5289
	134.60	MSA	Abandoned Survey, within 8 inch: NO, Remarks: Due To Broken Pipe From4		00:31:51	5290

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	4231	11	37	48	3.67	2.31	2.53