



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P O BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

October 27, 2010

IN REPLY PLEASE
REFER TO FILE **SM-1**

Mr Krishna Patel, Public Works Director
City of San Dimas
245 East Bonita Avenue
San Dimas, CA 91773-3002

Attention Ms Shari Garwick

Dear Mr. Patel

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT NO. Y0TV0809C**

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 inspection of 13,273 feet or 2.6 percent of the City of San Dimas' sewer system

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

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

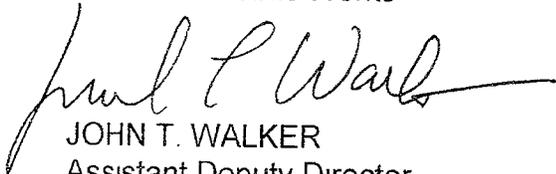
Mr. Krishna Patel
October 27, 2010
Page 2

The Condition Assessment Report provides 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, incorporated into our routine cleaning schedule. 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, 8 a.m. to 4 p.m., or rswartz@dpw.lacounty.gov

Very truly yours,

GAIL FARBER
Director of Public Works



JOHN T. WALKER
Assistant Deputy Director
Sewer Maintenance Division

HK:gy
H:\SM\HOME\GYoung\Memos.Letters\1941a.docx

Enc.

bc: Programs Development (Huang)

JW, KL, RS, FV, File (Project Y0TV0809C), SPINDLE

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

PROJECT NAME:	Y0TV0809C	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	08/10/2009	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	5	MAP PAGE(S):	2384 □ 2385
Report By:	Hanna Kebede	Report Date:	07/29/2010

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 13,273 feet or approximately 2.6 percent of the City of San Dimas's sewer system.

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

PROJECT AREA AND DESCRIPTION

Project Y0TV0809C included sewer lines located in the Unincorporated County of Los Angeles area and in the Cities of Glendora, Palos Verdes Estates, Rancho Palos Verdes and San Dimas. Enclosed for your reference is an overview map of the project area within your City (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 structural 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 five 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: Severe 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 82.2 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 17.8 percent of the inspected pipe segments within the City of San Dimas area had a PACP maintenance grade of 3, 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).

In addition, a separate analysis was conducted to determine the presence of high water levels and infiltration in these inspected lines. Our analysis did not reveal any lines impacted with capacity and/or infiltration issues.

Also included is a list of maintenance deficiencies discovered inside the lateral connection to the mainline. The District 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 identified with maintenance deficiencies in need of immediate attention by the District. A letter will be sent to the lateral owner notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

Also included, a color-coded map showing the quick maintenance rating for each pipe segment is provided in Enclosure 2.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	0	0	0
2: Good	10,914	82.2	59
3: Fair	1,084	8.2	5
4: Poor	1,025	7.7	4
5: Immediate Attention	250	1.9	1
TOTAL	13,273	100.0	69

STRUCTURAL REPORT

Our inspection revealed that approximately 89.9 percent of the inspected pipe segments within the City of San Dimas were free of severe structural defects. However, the remaining 10.1 percent of the inspected pipe segments had a PACP structural grade of 4 or 5 as indicated in the Quick Structural 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 6 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 report for these 6 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	11,356	85.5	60
2: Good	116	0.9	1
3: Fair	464	3.5	2
4: Poor	1,224	9.2	5
5: Immediate Attention	113	0.9	1
TOTAL	13,273	100.0	69

FUTURE PROJECTS

The Sewer Condition Assessment Program will be performing future closed-circuit television (CCTV) inspection of the remaining sewer lines within the City of San Dimas according to the following schedule.

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-2006	Y0TV0506D	55,122	10.8	COMPLETE
2008-2009	Y0TV0809C	13,273	2.6	COMPLETE
2011-2012	Y0TV1112C	174,435	34.0	FUTURE
2015-2016	5□29	269,574	52.6	FUTURE
TOTAL		512,404	100.0	

ENCLOSURE 1:

Project Overview Map

PROJECT

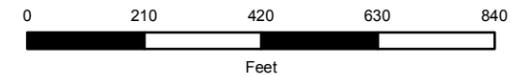
OVERVIEW MAP

SAN DIMAS

CCTV PROJECT

Y0TV0809C

**Supervisorial District 4 & 5
Cities of San Dimas, Glendora,
Palos Verdes Estates,
Rancho Palos Verdes &
Unincorporated County**



Legend

SMD Manholes

⊙ Other

Manhole Type

● Standard

▲ DROP

■ Shallow

◆ Trap

⊗ Siphon

■ SMD Pump Satations

■ SMD Treatment Plants

Maintained by Others:

— Trunk Sewerlines

- - - Non SMD Sanitary Sewers

● Trunk Mh

● Non SMD Maintained MH

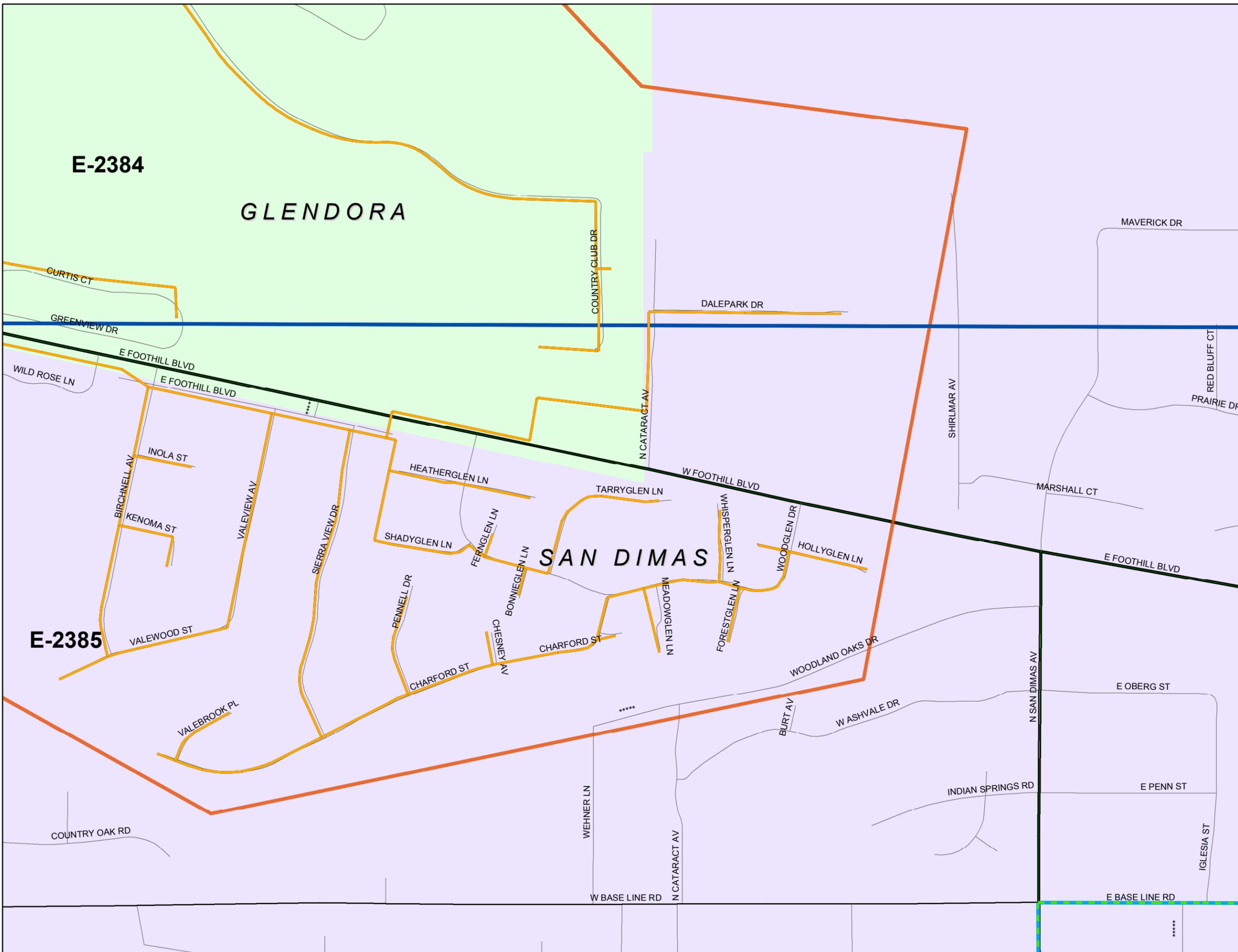
□ Parcel Boundary

▭ Y0TV0809C

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SEPTEMBER 2010

0809C_OVERVIEW.mdx



E-2384

GLENDORA

SAN DIMAS

E-2385

ENCLOSURE 2:

- Quick Maintenance Rating Report
Priority List
- Sample Lateral Notice Letter
- Quick Maintenance Rating Map

ENCLOSURE 2
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST
 CITY OF SAN DIMAS (Y0TV0809C)
 as of 08/10/09

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken	Date of Completion
1	5121	2385-0358	2385-0359	HEATHERGLEN LN	Obstacle: 205'	Hydrojet	04/21/2010
2	4334	2385-0354	2385-0353	PENNELL DR	Roots: 102'; roots (lateral)	Rodder ; lateral notice will be sent to property owner	12/09/2009
3	4231	2385-0463	2385-0462	MEADOWGLEN LN	Roots: 213'-214'	Rodder	03/26/2010
4	4131	2385-0352	2385-0351	CHARFORD ST	Water level 15%-20%: 290'-340'; roots (lateral)	Hydrojet; lateral notice will be sent to property owner	04/21/2010
5	4123	2385-0361	2385-0358	EASE / HEATHERGLEN LN	Roots: 255'	Rodder	12/09/2009
6	3589	2385-0305	2385-0306	FOOTHILL BV	Roots: 64'	Rodder	03/26/2010
7	3574	2385-0463	2385-0462	MEADOWGLEN LN	Roots: 8'; roots (lateral)	Rodder; lateral notice will be sent to property owner	12/14/2009
8	3534	2385-0358	2385-0357	EASMENT BY SIERRA VIEW DR	Roots: 2', 4', □ 65'	Rodder	06/28/2010
9	3474	2385-0472	2385-0471	HOLLYGLEN LN	Roots: 13'; roots (lateral)	Rodder; lateral notice will be sent to property owner	03/26/2010
10	3452	2385-0353	2385-0352	PENNELL DR	Roots: 4', 11', □ 64'	Rodder	12/09/2009



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ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

August 19, 2010

Current Property Owner
3476 Marengo Ave
Altadena, CA 91001

Dear Property Owner:

SEWER LATERAL ROOT INTRUSION 3476 MARENGO AVE, ALTADENA, CALIFORNIA 91001

As the agency responsible for the maintenance of the sanitary sewer system in your area, the County of Los Angeles Consolidated Sewer Maintenance District (District) is providing you with this letter informing you that the sewer lateral serving the property located at 3476 Marengo Ave, Altadena, California 91001, requires maintenance and is in violation of **County Code 20.24.080 Maintenance of Sewer Laterals**, which states:

☐ All house laterals, industrial connection sewers, septic tank outlet connections to STEP system, and appurtenances thereto existing as of January 23, 1953, or thereafter constructed, shall be maintained by the owner of the property served in a safe and sanitary condition, and all devices or safeguards which are required by this Division 2 for the operation thereof shall be maintained in good working order.☐

Using closed-circuit television (CCTV) camera technology, the District recently televised the sanitary sewer mainline and discovered the presence of roots in your sewer lateral connection. The intrusion of the roots from your lateral may block the flow of sewage in the mainline sewer causing a sanitary sewer overflow upstream of your property.

Since the CCTV inspection, the sewer mainline has been cleaned and blockages from root growth have been removed; however, the root blockage in your sewer lateral is still present. As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a qualified plumbing contractor to service

IN REPLY PLEASE

REFER TO FILE:

SM-1

Current Property Owner
August 19, 2010
Page 2

your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup. Failure to do so may result in future overflows and subject you to civil prosecution, reimbursement costs, and fines up to \$1,000. Reference 20.24.160 Violation - Penalty; 20.24.170 Continued violations; 20.32.690 Reimbursement for repairs and maintenance following violations.

Prior to your plumbing contractor servicing your lateral, please notify the District's sewer maintenance yard in your area at (626) 446-5227 to arrange for authorization to access the downstream manhole.

During your lateral service, your plumbing contractor must protect the District's sewer mainlines from dislodged roots and other debris by utilizing catcher baskets at the manhole downstream from your lateral connection.

After your lateral has been serviced, please notify the District office, Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or fvillalun@dpw.lacounty.gov.

For your reference, we have enclosed photos of your lateral connection showing the presence of the root blockage. Also enclosed are some literature on ways of minimizing sewer overflows and damage to your home.

Thank you for helping the Department of Public Works keep the public's sewers clean and in good working order.

Very truly yours,

GAIL FARBER
Director of Public Works

JOHN T. WALKER
Assistant Deputy Director
Sewer Maintenance Division

PK:

Enc.

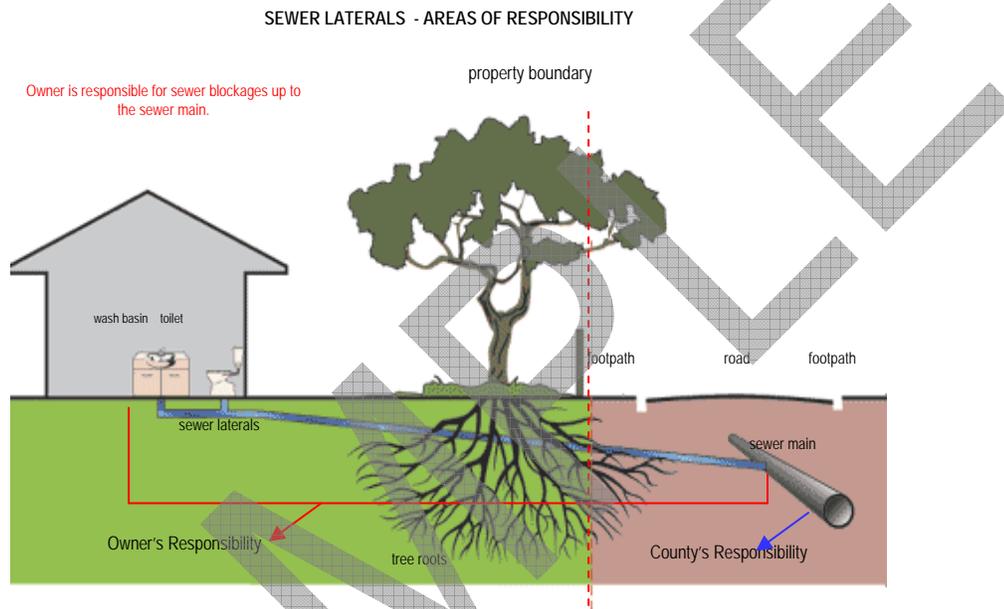
bc: JW, KL, RS, FV, RH, File (Lateral Notice), SPINDLE

3476 MARENGO AVE
ALTADENA
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

The sewer system within the County of Los Angeles Consolidated Sewer Maintenance District (District) is comprised of a series of underground pipes. Many are publicly owned; however, the sewer laterals are entirely owned by the private property owner they serve. The laterals extend from the building to the mainline within the street (or within an easement at the rear of your home). The laterals are typically four inches in diameter while the District's mainline is typically at least eight inches in diameter. The private property owner is responsible for the entire length of the lateral, which includes that portion that may be located within the public right of way (under the asphalt and street landscaping).



Sewer backups can cause tremendous damage to the interior of a home. In order to minimize these, the District provides continual maintenance services for the public sewer mainlines.

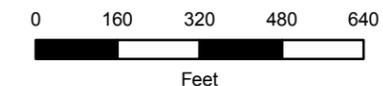
Unfortunately, sewer laterals are often not maintained by private property owners until a disaster strikes. Out of sight, out of mind is a typical approach to sewer lateral maintenance and operation by many. It is our hope that we can provide you various means of addressing these issues and thus minimize your risk of an overflow entering your home.

The three methods we suggest are:

1. Maintain your lateral through proper cleaning, repair, and replacement
2. Do not place improper items into the sewer or make improper connections to the sewer
 - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
 - b. Do not pour fats, oils, and grease in your drains as these products harden and stick to the inside of the sewer pipes, which build up and may eventually cause a blockage in the sewer pipe.
3. Install a backflow preventer and cleanout in your sewer lateral.

ENCLOSURE 2
CCTV PROJECT
Y0TV0809C
City of San Dimas

QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

QMR

- 1: EXCELLENT (Green line)
- 2: GOOD (Blue line)
- 3: FAIR (Yellow line)
- 4: POOR (Pink line)
- 5: IMMEDIATE ATTENTION (Red line)

SMD Manholes

- Other (Circle with dot)
- Standard (Circle)
- DROP (Triangle)
- Shallow (Square)
- Trap (Diamond)
- Siphon (Circle with cross)

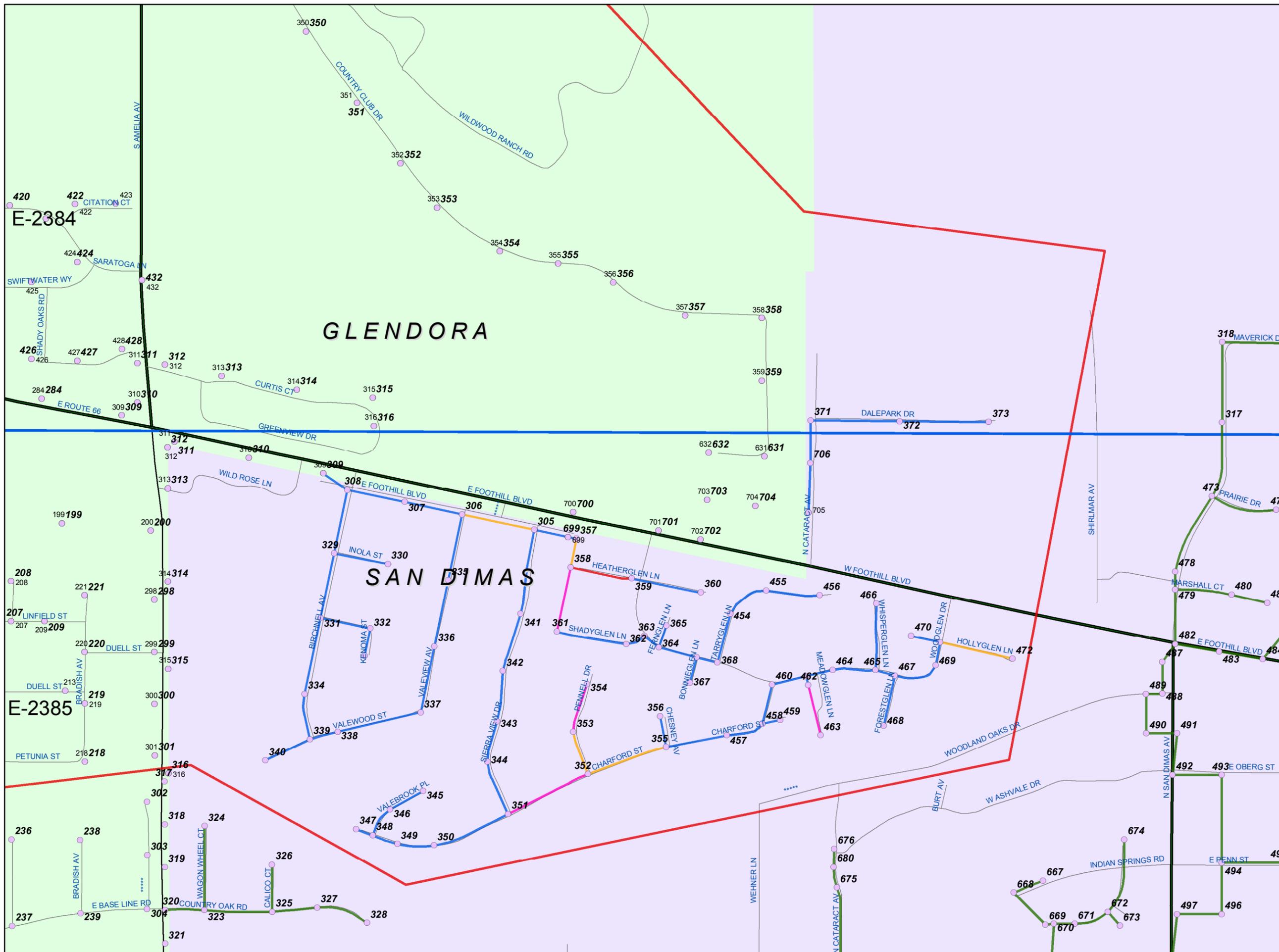
WTP SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines (Thick green line)
- Non SMD Sanitary Sewers (Dashed green line)
- Non SMD Maintained MH (Green dot)
- SMD Operations Maps (Blue outline)
- CCTV Project Area (Red outline)

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SEPTEMBER 2010



E-2384

E-2385

GLENDORA

SAN DIMAS

ENCLOSURE 3:

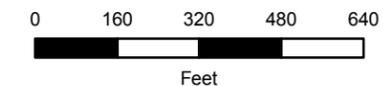
- Quick Structural Rating Report
Priority List
- Quick Structural Rating Map

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF SAN DIMAS (Y0TV0809C)
as of 08/10/09

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5100	2385-0338	2385-0339	VALEWOOD ST	Hole with visible void at base of MH 2385-0339	CSMD to repair base of MH 2385-0339	
2	4722	2385-0361	2385-0358	EASE / HEATHERGLEN LN	Fractures: 155'-164', 255'; deformed: 171'-178'	Lining : MH to MH	257
3	4316	2385-0463	2385-0462	MEADOWGLEN LN	Fractures: 11'; hole with soil visible: 214'; joint offsets	Point Repair: 214'	
4	4300	2385-0352	2385-0351	CHARFORD ST	Fractures: 270'-279'	Lining : MH to MH	347
5	421A	2385-0360	2385-0359	HEATHERGLEN LN	Fractures: 109'-113'; joint offsets	Structural integrity in tact. No action needed.	
6	4100	2385-0356	2385-0355	CHESNEY AV	Broken: 81'	Structural integrity in tact. No action needed.	

ENCLOSURE 3
CCTV PROJECT
YOTV0809C
City of San Dimas

QUICK
STRUCTURAL
RATING
(QSR)



Legend

SMD Sanitary Sewers

- QSR**
- 1: EXCELLENT (Green line)
 - 2: GOOD (Blue line)
 - 3: FAIR (Yellow line)
 - 4: POOR (Pink line)
 - 5: IMMEDIATE ATTENTION (Red line)

SMD Manholes

- Other (Circle with dot)
- Standard (Purple circle)
- DROP (Purple triangle)
- Shallow (Purple square)
- Trap (Purple diamond)
- Siphon (Purple circle with cross)

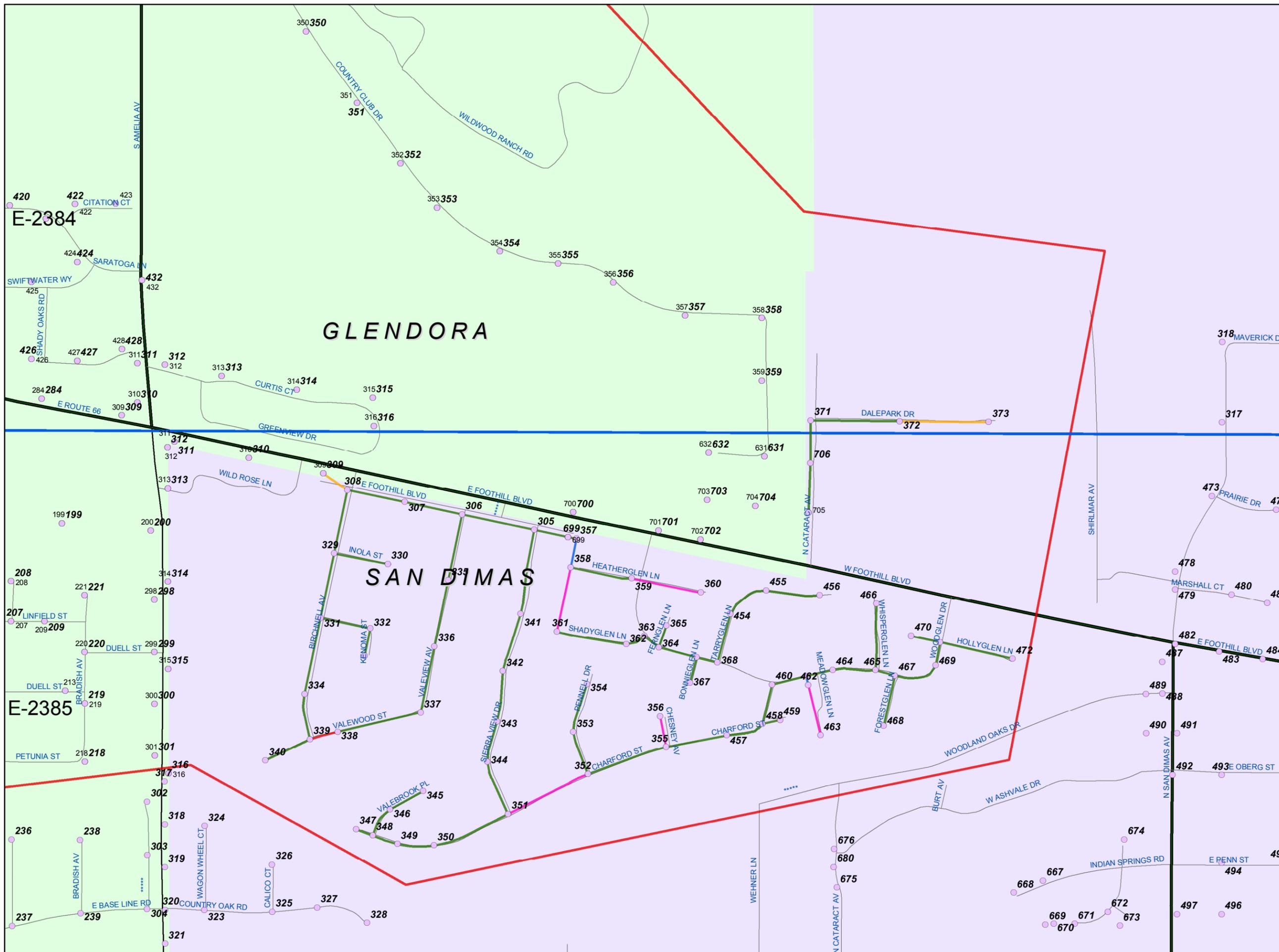
WTP SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines (Thick green line)
- Non SMD Sanitary Sewers (Dashed green line)
- Non SMD Maintained MH (Green dot)
- SMD Operations Maps (Blue outline)
- CCTV Project Area (Red outline)

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SEPTEMBER 2010



ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20090506	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 2772	PSR: 89896
Total Pipe Length: 113	Survey Customer: LACDPW	System Owner: SND	Clean Date: 05/06/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 2385

Street: VALEWOOD ST	Flow Control: N Not Controlled	Start MH: 2385-0338
City: SND	Year Renewed	End MH: 2385-0339
Location Code: C Light Highway	Tape/Media ☐	pipe length: 97 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 113
Drain. Area: 0338/2385-0339/2385	Lining Method:
	Category:

Remark:: **HOLE WHERE PIPE CONNECTS TO MH.**

1:225	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2385-0338	00:00:00	818	
	0.00	Water Level, 5 % of cross sectional area	00:00:00		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:00		M 2
	37.50	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:02:18	819	
	55.00	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:03:06	820	
	97.00	Hole Void Visible, from 04 to 06 o'clock, within 8 inch: NO, Remark: PIPE CONNECTS TO MH	00:04:55	821, b	S 5
	97.00	Downstream Manhole, Survey Ends 2385-0339	00:05:59	823	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2200	5	4	9	5	2	3



Inspection report

Date: 20090512	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 2867	PSR: 89796
Total Pipe Length: 262	Survey Customer: LACDPW	System Owner: SND	Clean Date: 05/12/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 2385

Street: 0	Flow Control: N Not Controlled	Start MH: 2385-0361
City: SND	Year Renewed	End MH: 2385-0358
Location Code: D Easement/Right of Way	Tape/Media ☐	pipe length: 257.4 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 262
Drain. Area: 0358/2385-0361/2385	Lining Method:
	Category:

Remark:: **FRACTURES, ROOTS.**

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2385-0361	00:00:00	118	
	0.00	Water Level, 5 % of cross sectional area	00:00:41		M 2
	0.00	Water Mark, 5 % of cross sectional area	00:00:43		M 2
	49.70	Joint Offset Medium	00:03:10	119, b	S 1
	152.70	Water Level, Sag in pipe, 10 % of cross sectional area, start	00:08:21	121, b	M 2
	154.90	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:09:34	123, b	S 2
	155.60	Fracture Multiple, from 07 to 05 o'clock, within 8 inch: NO, start	00:09:56	125, b	S 4
	162.00	Water Level, Sag in pipe, 10 % of cross sectional area, end	00:10:26	127	M 2
	164.80	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:10:47	128	S 4
	171.10	Fracture Multiple, from 06 to 12 o'clock, within 8 inch: YES	00:11:17	129, b	S 4
	173.00	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: NO	00:11:45	131, b	S 4
	176.70	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:12:31	133	S 4
	178.40	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: NO	00:12:50	134, b	S 4
	255.70	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: NO	00:16:03	136, b	S 4
	255.70	Roots Medium Barrell, from 12 to 07 o'clock, 40 %, within 8 inch: NO	00:16:27	138, b	M 4
	256.30	Fracture Circumferential, from 12 to 12 o'clock, within 8 inch: NO	00:16:49	140, b	S 2
	257.40	Downstream Manhole, Survey Ends 2385-0358	00:18:11	142	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4722	4124	33	12	45	3.3	2.4	3



Inspection report

Date: 20090511	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 2798	PSR: 89665
Total Pipe Length: 205	Survey Customer: LACDPW	System Owner: SND	Clean Date: 05/11/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 2385

Street: MEADOWGLEN LN	Flow Control: N Not Controlled	Start MH: 2385-0463
City: SND	Year Renewed	End MH: 2385-0462
Location Code: C Light Highway	Tape/Media ☐	pipe length: 214.4 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 205
Drain. Area: 0462/2385-0463/2385	Lining Method:
	Category:

Remark:: **AGAINST FLOW. DEFECTS.**

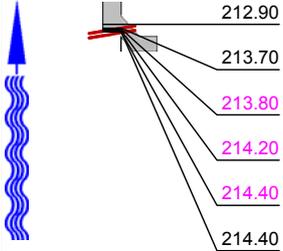
1:462	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2385-0462	00:00:00	1286	
	0.00	Water Level, 10 % of cross sectional area	00:00:57		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:01:01		M 2
	3.00	Joint Offset Medium	00:01:30	1287, b	S 1
	11.00	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: NO	00:02:14	1289, b	S 4
	13.00	Fracture Multiple, from 01 to 04 o'clock, within 8 inch: YES	00:02:46	1291, b	S 4
	22.00	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES, Remark: ROOTS	00:03:26	1293, b	
	23.00	Joint Offset Medium	00:03:57	1295, b	S 1
	37.10	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES, Remark: ROOTS	00:04:54	1297, b	
	43.20	Water Level, 5 % of cross sectional area	00:05:40	1299	M 2
	71.30	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:06:48	1300	
	89.10	Joint Offset Medium	00:07:55	1301, b	S 1
	105.20	Joint Offset Medium	00:09:09	1303, b	S 1
	105.90	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:09:24	1305	
	118.10	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:10:00	1306	
	125.00	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:10:25	1307	
	131.90	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:10:49	1308	
	143.60	Joint Offset Medium	00:11:28	1309, b	S 1
	166.40	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:12:26	1311	
	167.90	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:12:41	1312	
	195.90	Joint Offset Medium	00:13:52	1313, b	S 1
	196.60	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:14:09	1315	
	200.60	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:14:31	1316	



Inspection report

Date: 20090511	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 2798	PSR: 89665
Total Pipe Length: 205	Survey Customer: LACDPW	System Owner: SND	Clean Date: 05/11/2009	Pre-Cleaned: J Jetting	Map Grid # 2385

1:462	position	observation	MPEG	photo	grade
	212.90	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:15:23	1317	
	213.70	Roots Medium Joint, from 06 to 10 o'clock, 40 %, within 8 inch: YES	00:15:58	1318	
	213.80 S1	Roots Medium Barrell, from 06 to 10 o'clock, 40 %, within 8 inch: YES, start	00:16:22	1319	M 4
	214.20	Broken, from 10 to 01 o'clock, within 8 inch: NO	00:16:54	1320, b	S 4
	214.40 F1	Roots Medium Barrell, from 06 to 10 o'clock, 40 %, within 8 inch: NO, end	00:18:09		M 4
	214.40	Survey Abandoned, Remark: CAMERA BLOCKED ROOTS.	00:18:27	1322	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4316	4223	18	14	32	2	2.8	2.29



Inspection report

Date: 20090511	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 2789	PSR: 89797
Total Pipe Length: 278	Survey Customer: LACDPW	System Owner: SND	Clean Date: 05/11/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 2385

Street: HEATHERGLEN LN	Flow Control: N Not Controlled	Start MH: 2385-0360
City: SND	Year Renewed	End MH: 2385-0359
Location Code: C Light Highway	Tape/Media ☐	pipe length: 284.9 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 278
Drain. Area: 0359/2385-0360/2385	Lining Method:
	Category:

Remark:: **AGAINST FLOW, OFFSET JOINTS, FRACTURES.**

1:462	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2385-0359	00:00:00	1373	
	0.00	Water Level, 5 % of cross sectional area	00:00:43		M 2
	0.00	Water Mark, 5 of cross sectional area	00:00:45		M 2
	73.60	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:03:18	1374	
	74.90	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:03:31	1375	
	89.40	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:04:06	1376	
	90.00	Joint Offset Medium	00:04:29	1377, b	S 1
	90.90	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:04:45	1379	
	109.70	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: NO	00:05:40	1380, b	S 4
	113.30	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:09	1382, b	S 4
	129.00	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:06:55	1384	
	139.10	Joint Offset Medium	00:07:30	1385, b	S 1
	139.40	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:07:48	1387	
	140.40	Joint Offset Medium	00:08:05	1388, b	S 1
	145.60	Joint Offset Medium	00:08:34	1390, b	S 1
	146.30	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:08:50	1392	
	153.20	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:09:15	1393	
	164.90	Joint Offset Medium	00:09:50	1394, b	S 1
	176.00	Joint Offset Medium	00:10:27	1396, b	S 1
	187.10	Joint Offset Medium	00:11:07	1398, b	S 1
	187.80	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:11:23	1400	
	191.20	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:11:41	1401	
	203.60	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:12:14	1402	



Inspection report

Date: 20090511	P.O. # Y0TV0809C	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 2789	PSR: 89797
Total Pipe Length: 278	Survey Customer: LACDPW	System Owner: SND	Clean Date: 05/11/2009	Pre-Cleaned: J Jetting	Map Grid # 2385

1:462	position	observation	MPEG	photo	grade
	208.90	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:12:35	1403	
	215.30	Joint Offset Medium	00:13:01	1404, b	S 1
	231.60	Joint Offset Medium	00:13:53	1406, b	S 1
	240.80	Joint Offset Medium	00:14:30	1408, b	S 1
	241.50	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:14:45	1410	
	259.20	Tap Factory Made Active, at 03 o'clock, 4", within 8 inch: YES	00:15:23	1411	
	266.20	Tap Factory Made Active, at 09 o'clock, 4", within 8 inch: YES	00:15:47	1412	
	284.90	Upstream Manhole, Survey Ends 2385-0360	00:17:21	1413	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
421A	2200	18	4	22	1.5	2	1.57



Inspection report

Date: 20090507	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 2788	PSR: 89791
Total Pipe Length: 123	Survey Customer: LACDPW	System Owner: SND	Clean Date: 05/07/2009	Pre-Cleaned: J Jetting	Map Grid ☐ 2385

Street: CHESNEY AV	Flow Control: N Not Controlled	Start MH: 2385-0356
City: SND	Year Renewed	End MH: 2385-0355
Location Code: C Light Highway	Tape/Media ☐	pipe length: 126.6 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 123
Drain. Area: 0355/2385-0356/2385	Lining Method:
	Category:

Remark:: **BROKEN JOINT.**

1:300	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2385-0356	00:00:00	1009	
	11.80	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:02:04	1010	
	13.10	Water Level, 5 % of cross sectional area	00:02:20		M 2
	13.10	Water Mark, 5 % of cross sectional area	00:02:21		M 2
	14.60	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:02:36	1011	
	81.60	Broken, from 06 to 08 o'clock, within 8 inch: YES	00:05:17	1012, b	S 4
	126.60	Downstream Manhole, Survey Ends 2385-0355	00:07:37	1014	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2200	4	4	8	4	2	2.67



Inspection report

Date: 20090508	P.O.☐ Y0TV0809C	Weather: 1 Dry	Surveyed By: T. TOBIN	section number: 2784	PSR: 89787
Total Pipe Length: 356	Survey Customer: LACDPW	System Owner: SND	Clean Date: 05/08/2009	Pre-Cleaned: H Heavy Cleaning	Map Grid ☐ 2385

Street: CHARFORD ST	Flow Control: N Not Controlled	Start MH: 2385-0352
City: SND	Year Renewed	End MH: 2385-0351
Location Code: C Light Highway	Tape/Media ☐	pipe length: 346.8 ft

Reason for inspection: F Routine Assessment	Dia/Height: C Circular 8/8
Use of Sewer: SS Sanitary	Material: VCP Pipe Length: 356
Drain. Area: 0351/2385-0352/2385	Lining Method:
	Category:

Remark:: **FRACTURES.**

1:775	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2385-0352	00:00:00	1153	
	0.00	Water Level, 10 % of cross sectional area	00:00:55		M 2
	0.00	Water Mark, 10 % of cross sectional area	00:00:58		M 2
	55.80	Roots Fine Joint, from 08 to 10 o'clock, within 8 inch: YES	00:03:11	1154, b	
	57.00	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:03:38	1156	
	57.00	Roots Ball Lateral, at 10 o'clock, 100 %, within 8 inch: YES	00:03:41	1157, b	M 4
	59.60	Tap Factory Made Active, at 02 o'clock, 4", within 8 inch: YES	00:04:16	1159	
	59.60	Roots Medium Lateral, at 02 o'clock, 50 %, within 8 inch: YES	00:04:21	1160, b	M 3
	107.70	Tap Factory Made Active, at 10 o'clock, 4", within 8 inch: YES	00:06:21	1162	
	145.20	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:07:57	1163, b	
	208.20	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:13:22	1165	
	270.70	Fracture Multiple, from 08 to 12 o'clock, within 8 inch: YES	00:16:26	1166, b	S 4
	271.60 S1	Fracture Multiple, from 07 to 05 o'clock, within 8 inch: NO, start	00:17:07	1168, b	S 4
	278.90 F1	Fracture Multiple, from 08 to 03 o'clock, within 8 inch: NO, end	00:17:45	1170	S 4
	281.90	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:18:07	1171	
	296.60	Water Level, 15 % of cross sectional area	00:18:49	1172	M 2
	342.00	Water Level, 10 % of cross sectional area	00:20:19	1173	M 2
	344.00	Tap Factory Made Active, at 12 o'clock, 6", within 8 inch: YES	00:20:33	1174	
	346.80	Manhole, Remark: VOID INSIDE MH CHANNEL	00:21:01	1175, b	
	346.80	Downstream Manhole, Survey Ends 2385-0351	00:22:03	1177	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4300	4131	12	15	27	4	2.5	3