



GAIL FARBER, Director

# COUNTY OF LOS ANGELES

## DEPARTMENT OF PUBLIC WORKS

*"To Enrich Lives Through Effective and Caring Service"*

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P.O. BOX 1460  
ALHAMBRA, CALIFORNIA 91802-1460

December 11, 2012

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

Mr. Jerry L. Burke, City Engineer  
City of Glendora  
116 East Foothill Boulevard  
Glendora, CA 91741

Attention Ms. Jennifer Aguilar

Dear Mr. Burke:

### **CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT NO. Y0TV1011A**

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 167,372 feet or 22.6 percent of the City of Glendora's 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 and Quick Maintenance Rating Map (Enclosure 2)
- High Water Levels List and 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. Jerry L. Burke  
December 11, 2012  
Page 2

The Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should 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, scheduled for increased monitoring and cleaning. 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, Sewer Maintenance Division, at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or [rswartz@dpw.lacounty.gov](mailto:rswartz@dpw.lacounty.gov).

Very truly yours,

GAIL FARBER  
Director of Public Works



RAJESH PATEL  
Assistant Deputy Director  
Sewer Maintenance Division

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EL:sb  
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*02.*  
Enc.

bc: Programs Development (Huang)  
bc: RP, MM, RS, FV, File (Project Y0TV1011A), SPINDLE

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

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PROJECT NAME: Y0TV1011A	PROJECT MGR: Eric Liu
PROJECT DATE: 08/15/2011	CONTACT NO: (626) 300-3369
SUP. DISTRICT(S): 5	MAP PAGE(S): 2297, 2298, 2340, 2341, 2342
Report By: Eric Liu	Report Date: 10/31/2012

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**INTRODUCTION**

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television (CCTV) inspection of 167,372 feet or 22.6 percent of the City of Glendora's (City) sewer system.

The Sewer Condition Assessment Program utilizes the Pipeline Assessment and Certification Program (PACP Version 6.0.1) Quick Rating methodology to rank the structural and maintenance condition of your system based on industry standards.

**PROJECT AREA AND DESCRIPTION**

Project No. Y0TV1011A included sewer lines located in the unincorporated County of Los Angeles and the Cities of Commerce, Diamond Bar, Glendora, Irwindale, and La Habra Heights. 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:

<b>Grade</b>	<b>Defect Grade Description</b>
<b>1:</b>	<b>MINOR</b>
<b>2:</b>	<b>MINOR TO MODERATE</b>
<b>3:</b>	<b>MODERATE</b>
<b>4:</b>	<b>SIGNIFICANT</b>
<b>5:</b>	<b>MOST SIGNIFICANT</b>

## **MAINTENANCE REPORT**

Our inspection revealed that approximately 59 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 41 percent of the inspected pipe segments within the City 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 an enhanced cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

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

### **QUICK MAINTENANCE RATING TABLE**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. SEGMENTS</b>
1: Minor	0	0.0	0
2: Minor to Moderate	98,823	59.0	408
3: Moderate	14,717	8.8	54
4: Significant	52,591	31.4	191
5: Most Significant	1,241	0.8	4
TOTAL	167,372	100.0	657

### ***Lateral Notices***

Also included on the Quick Maintenance Rating Report Priority List are deficiencies discovered inside lateral connections to the mainline. The District does not maintain lateral lines; it is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. 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.

### ***High Water Levels***

Our inspection revealed that approximately 98.6 percent of the system televised has adequate capacity. However, the remaining 1.4 percent of the inspected segments included deficiencies associated with high water levels. Capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which have indicated camera underwater or sags in the line. A sewer pipe can be considered at capacity when 50 percent of the diameter of sewer pipe is full of water. However, there are particular conditions in which the water level or water mark has reached 50 percent or greater due to heavy flows in adjoining pipes, a temporary stoppage due to debris in the sewer lines, or a sag in the line.

Therefore, additional review of the pipe segments with such high water level concerns was conducted to determine capacity issues, if any. All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50 percent capacity, have been outlined and analyzed on the High Water Level table in Enclosure 2. The nature of these high water level conditions is also summarized on this table.

A map showing the sewer lines with high water levels is provided in Enclosure 2.

***Infiltration***

Our inspection revealed that infiltration was not detected in any pipe segment in your City’s system.

**STRUCTURAL REPORT**

Our inspection revealed that approximately 96 percent of the inspected pipe segments within the City were free of severe structural defects. However, the remaining 4 percent of the inspected pipe segments had a PACP structural grade of 4 and 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 22 in the Quick Structural Rating Report Priority List (Enclosure 3), which require a corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of our 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 22 segments are included in Enclosure 4.

**QUICK STRUCTURAL RATING TABLE**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. SEGMENTS</b>
1: Minor	145,428	86.9	581
2: Minor to Moderate	5,409	3.2	18
3: Moderate	9,930	5.9	36
4: Significant	5,042	3.0	17
5: Most Significant	1,563	1.0	5
<b>TOTAL</b>	<b>167,372</b>	<b>100.0</b>	<b>657</b>

## **FUTURE PROJECTS**

The Sewer Condition Assessment Program will be performing future CCTV inspections of the remaining sewer lines within the City according to the following schedule:

<b>FISCAL YEAR</b>	<b>PROJECT NAME</b>	<b>LENGTH (FT)</b>	<b>PERCENTAGE OF SYSTEM</b>	<b>STATUS</b>
2005-2006	Y0TV0506D	73,405	9.9	COMPLETED
2007-2008	Y0TV0708F	97,704	13.2	COMPLETED
2008-2009	Y0TV0809C	301,392	40.8	COMPLETED
2010-2011	Y0TV1011A	167,372	22.6	COMPLETED
2013-2014	Y0TV1314C	99,369	13.5	FUTURE
TOTAL		739,242	100.0	

ENCLOSURE 1:

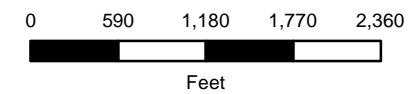
Project Overview Map



# OVERVIEW MAP

## CCTV PROJECT YOTV1011A

City of Glendora



### Legend

— SMD Sanitary Sewers

### SMD Manholes

⊗ Other

### Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

Ⓜ SMD Pump Stations

Ⓜ SMD Treatment Plants

### Maintained by Others:

— Trunk Sewerlines

- - - Non SMD Sanitary Sewers

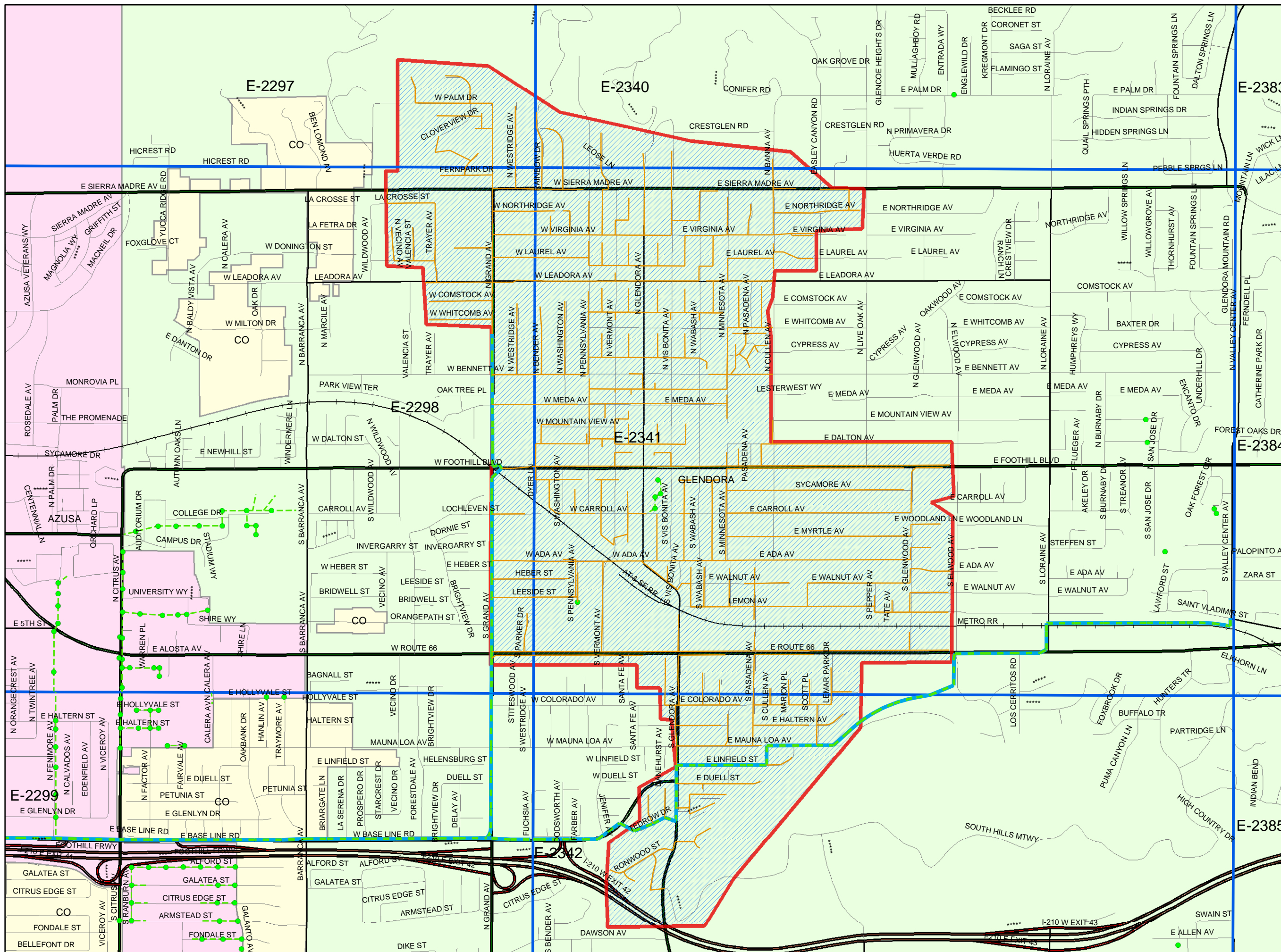
● Non SMD Maintained MH

□ SMD Operations Maps

▨ CCTV Project Area

This map is intended only for internal operations of the Los Angeles County Sewer Maintenance Districts. Los Angeles County expressly disclaims any liability for any inaccuracies which may be present in this map. Data contained in this map is produced in whole or part from the Thomas Bros. Maps® digital database. This map is copyrighted, and reproduced with permission granted, by Thomas Bros. Maps®. All rights reserved.

NOVEMBER 2012





## ENCLOSURE 2:

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

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF GLENDORA (Y0TV1011A)**  
as of 08/31/11

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5142	2341-0112	2341-0111	ADA AV	Roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
2	5142	2341-0722	2341-0723	ALLEY	Roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
3	5141	2298-0207	2298-0208	WHITCOMB AV	Roots	Hydro (10/16/2012)
4	5133	2341-0257	2341-0258	FOOTHILL BV	Roots; root ball lateral	Hydro (10/19/2012); Letter to homeowner.
5	4A3D	2341-0640	2341-0639	MINNESOTA AV	Roots	Hydro (10/12/2012)
6	4933	2341-0577	2341-0575	ALLEY	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
7	4932	2298-0185	2298-0182	GRAND AV	Roots	Hydro (10/16/2012)
8	4833	2341-0302	2341-0301	ALLEY	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
9	4633	2341-0585	2341-0584	ALLEY	Roots; root ball lateral	Hydro (10/12/2012); Letter to homeowner.
10	4632	2341-0550	2341-0551	ALLEY	Roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
11	4632	2341-0681	2341-0680	LAUREL AV	Roots; root ball lateral	Hydro (10/15/2012); Letter to homeowner.
12	4631	2297-0025	2297-0024	EASEMENT	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
13	4631	2341-0536	2341-0537	DALTON AV	Roots; root ball lateral	Rodder (10/16/2012); Letter to homeowner.
14	453C	2341-0580	2341-0579	GLENDORA AV	Roots; root ball lateral	Hydro (10/12/2012); Letter to homeowner.
15	4533	2341-0537	2341-0538	DALTON AV	Roots; root ball lateral	Rodder (10/16/2012); Letter to homeowner.
16	4531	2298-0190	2298-0199	GRAND AV	Roots	Rodder (10/12/2012)
17	4531	2341-0278	2341-0279	FOOTHILL BV	Roots; root ball lateral	Hydro (10/18/2012); Letter to homeowner.
18	4531	2341-0663	2341-0642	ALLEY	Root ball lateral	Letter to homeowner.
19	4531	2341-0746	2341-0748	LAUREL AV	Roots; root ball lateral	Hydro (10/18/2012); Letter to homeowner.
20	4438	2341-0302	2341-0105	ALLEY	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
21	4433	2341-0600	2341-0599	BENDER AV	Roots; root ball lateral	Hydro (10/12/2012); Letter to homeowner.
22	4432	2341-0101	2341-0075	VERMONT AV	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
23	4432	2341-0123	2341-0124	ADA AV	Roots; root ball lateral	Rodder (10/16/2012); Letter to homeowner.
24	4432	2341-0643	2341-0666	ALLEY	Medium joint offset; roots; root ball lateral	Hydro (10/17/2012); Letter to homeowner.
25	4431	2341-0554	2341-0553	ALLEY	Roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
26	4425	2341-0696	2341-0697	VIRGINIA AV	Root ball lateral	Letter to homeowner.
27	4422	2341-0327	2341-0328	CARROLL AV	Debris; root ball lateral	Rodder (10/16/2012); Letter to homeowner.
28	4421	2341-0122	2341-0121	ADA AV	Roots; root ball lateral	Rodder (10/16/2012); Letter to homeowner.
29	4421	2341-0312	2341-0313	MINNESOTA AV	Root ball lateral	Letter to homeowner.
30	4421	2341-0584	2341-0583	ALLEY	Roots; root ball lateral	Hydro (10/12/2012); Letter to homeowner.
31	4421	2341-0664	2341-0663	ALLEY	Root ball lateral	Letter to homeowner.
32	4421	2341-0698	2341-0699	VIRGINIA AV	Roots; root ball lateral	Hydro (10/17/2012); Letter to homeowner.
33	433C	2297-0018	2297-0017	EASEMENT	Deposits; grease; roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
34	433C	2341-0539	2341-0540	DALTON AV	High water level 40%; root ball lateral	Rodder (10/16/2012); Letter to homeowner.
35	4332	2340-0004	2341-0715	RAINBOW DR	Roots; root ball lateral	Hydro (10/17/2012); Letter to homeowner.
36	4332	2341-0258	2341-0259	FOOTHILL BV	Root ball lateral	Letter to homeowner.

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
37	4332	2341-0322	2341-0323	GLENWOOD AV	Roots; root ball lateral	Rodder (10/16/2012); Letter to homeowner.
38	4332	2342-0218	2342-0228	CENTER AV	Grease; root ball lateral	Hydro (10/19/2012); Letter to homeowner.
39	4331	2340-0007	2341-0714	BUBBLING WELL DR	Root ball lateral	Letter to homeowner.
40	4331	2341-0319	2341-0318	SYCAMORE AV	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
41	4331	2341-0578	2341-0577	ALLEY	Root ball lateral	Letter to homeowner.
42	4331	2341-0682	2341-0681	LAUREL AV	Root ball lateral	Letter to homeowner.
43	4322	2341-0665	2341-0666	ALLEY	Root ball lateral	Letter to homeowner.
44	4322	2341-0729	2341-0728	VISTA BONITA AV	Roots; root ball lateral	Hydro (10/18/2012); Letter to homeowner.
45	4321	2341-0010	2342-0020	ALLEY	Root ball lateral	Letter to homeowner.
46	4321	2341-0129	2341-0229	GLENWOOD AV	Roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
47	4321	2341-0250	2341-0249	FOOTHILL BV	Root ball lateral	Letter to homeowner.
48	4321	2341-0287	2341-0290	CARROLL AV	Root ball lateral	Letter to homeowner.
49	4321	2341-0631	2341-0605	ALLEY	Roots	Hydro (10/12/2012)
50	4321	2341-0712	2341-0711	PENNSYLVANNIA AV	Root ball lateral	Letter to homeowner.
51	4321	2341-0719	2341-0716	ALLEY	Root ball lateral	Letter to homeowner.
52	423B	2341-0077	2341-0078	ALOSTA AV	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
53	423A	2341-0639	2341-0638	BENNETT AV	Debris; roots; root ball lateral	Hydro (10/12/2012); Letter to homeowner.
54	4232	2297-0015	2297-0013	EASEMENT	Deposits; grease; camera under water; roots	Rodder (10/12/2012)
55	4232	2341-0100	2341-0101	VERMONT AV	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
56	4231	2298-0180	2298-0179	WESTRIDGE AV	Camera under water	Rodder (10/12/2012)
57	4231	2298-0191	2298-0190	LAUREL LN	High water level 40%; root ball lateral	Hydro (10/16/2012); Letter to homeowner.
58	4231	2341-0076	2341-0077	ALOSTA AV	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
59	4231	2341-0205	2341-0206	MINNESOTA AV	Root ball lateral	Letter to homeowner.
60	4231	2341-0206	2341-0207	MINNESOTA AV	Root ball lateral	Letter to homeowner.
61	4231	2341-0215	2341-0216	LEMON AV	Root ball lateral	Letter to homeowner.
62	4231	2341-0257	2341-0256	FOOTHILL BV	Root ball lateral	Letter to homeowner.
63	4231	2341-0259	2341-0260	FOOTHILL BV	Roots	Hydro (10/19/2012)
64	4231	2341-0262	2341-0263	FOOTHILL BV	Roots; root ball lateral	Hydro (10/19/2012); Letter to homeowner.
65	4231	2341-0541	2341-0268	ALLEY	Root ball lateral	Letter to homeowner.
66	4231	2341-0558	2341-0559	ALLEY	Root ball lateral	Letter to homeowner.
67	4231	2341-0592	2341-0593	MEDA AV	Root ball lateral	Letter to homeowner.
68	4231	2341-0636	2341-0637	ALLEY	Root ball lateral	Letter to homeowner.
69	4231	2341-0656	2341-0655	BENNETT AV	Root ball lateral	Letter to homeowner.
70	4231	2341-0696A	2341-0695	ALLEY	Roots	Hydro (10/17/2012)
71	4231	2341-0744	2341-0737	VIRGINIA AV	Root ball lateral	Letter to homeowner.
72	4224	2341-0689	2341-0688	ALLEY	High water level 50%; root ball lateral	Hydro (10/17/2012); Letter to homeowner.
73	4223	2298-0203	2298-0204	COMSTOCK AV	Root ball lateral	Letter to homeowner.
74	4222	2297-0020	2297-0021	PARKBROOK DR	Roots; root ball lateral	Hydro (10/16/2012); Letter to homeowner.
75	4221	2297-0013	2297-0014	EASEMENT	Root ball lateral	Letter to homeowner.
76	4221	2341-0109	2341-0310	ALLEY	Root ball lateral	Letter to homeowner.
77	4221	2341-0114	2341-0113	ADA AV	Root ball lateral	Letter to homeowner.
78	4221	2341-0222	2341-0223	WALNUT AV	Root ball lateral	Letter to homeowner.

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
79	4221	2341-0263	2341-0264	FOOTHILL BV	Root ball lateral	Letter to homeowner.
80	4221	2341-0270	2341-0267	FOOTHILL BV	Roots; root ball lateral	Hydro (10/19/2012); Letter to homeowner.
81	4221	2341-0275	2341-0276	FOOTHILL BV	Root ball lateral	Letter to homeowner.
82	4221	2341-0559	2341-0560	ALLEY	Root ball lateral	Letter to homeowner.
83	4221	2341-0579	2341-0578	ALLEY	Root ball lateral	Letter to homeowner.
84	4221	2341-0587	2341-0586	MINNESOTA AV	Roots; root ball lateral	Hydro (10/17/2012); Letter to homeowner.
85	4221	2341-0590	2341-0589	MEDA AV	Root ball lateral	Letter to homeowner.
86	4221	2341-0590	2341-0591	MEDA AV	Root ball lateral	Letter to homeowner.
87	4221	2341-0629	2341-0632	ALLEY	Roots; root ball lateral	Hydro (10/12/2012); Letter to homeowner.
88	4221	2341-0639	2341-0585	MINNESOTA AV	Root ball lateral	Letter to homeowner.
89	4221	2341-0677	2341-0678	LEADORA AV	Root ball lateral	Letter to homeowner.
90	4221	2341-0682	2341-CO	PENNSYLVANNIA AV	Roots	Hydro (10/17/2012)
91	4221	2341-0700	2341-0699	VIRGINIA AV	Root ball lateral	Letter to homeowner.
92	4221	2341-0701	2341-0700	VIRGINIA AV	High water level 30%; root ball lateral	Hydro (10/17/2012); Letter to homeowner.
93	4221	2341-0703	2341-0704	VIRGINIA AV	Root ball lateral	Letter to homeowner.
94	4221	2341-0730	2341-0729	ALLEY	Roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
95	4221	2342-0084	2342-0085	EASEMENT	Debris; roots; root ball lateral	Hydro (10/19/2012); Letter to homeowner.
96	4135	2341-0123	2341-0122	ADA AV	Roots	Rodder (10/16/2012)
97	4134	2341-0721	2341-0701	VERMONT AV	Debris; roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
98	4132	2340-0003	2340-0004	RAINBOW DR	Root ball lateral	Letter to homeowner.
99	4132	2340-0009	2340-0010	BROWN SAGE DR	Roots	Hydro (10/17/2012)
100	4132	2341-0215	2341-0214	LEMON AV	Root ball lateral	Letter to homeowner.
101	4132	2341-0252	2341-0253	FOOTHILL BV	Roots	Hydro (10/19/2012)
102	4132	2341-0265	2341-0266	FOOTHILL BV	Root ball lateral	Letter to homeowner.
103	4132	2341-0320	2341-0321	SYCAMORE AV	Root ball lateral	Letter to homeowner.
104	4132	2341-0324	2341-0323	CARROLL AV	Root ball lateral	Letter to homeowner.
105	4132	2341-0582	2341-0579	ALLEY	Root ball lateral	Letter to homeowner.
106	4132	2341-0599	2341-0598	BENDER AV	Debris; roots	Hydro (10/12/2012)
107	4132	2341-0603	2341-0602	WASHINGTON AV	Root ball lateral	Letter to homeowner.
108	4132	2341-0633	2341-0632	ALLEY	Deposits; grease; roots; root ball lateral	Hydro (10/12/2012); Letter to homeowner.
109	4132	2341-0698	2341-0729	VISTA BONITA AV	Root ball lateral	Letter to homeowner.
110	4132	2341-0716	2341-0717	SIERRA MADRE AV	Root ball lateral	Letter to homeowner.
111	4131	2298-0204	2298-0205	COMSTOCK AV	Roots; root ball lateral	Hydro (10/16/2012); Letter to homeowner.
112	4131	2298-0207	2298-0206	WHITCOMB AV	Root ball lateral	Letter to homeowner.
113	4131	2298-0208	2298-0209	WHITCOMB AV	Root ball lateral	Letter to homeowner.
114	4131	2341-0091	2341-0090	HEBER ST	Roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
115	4131	2341-0116	2341-0117	ADA AV	Roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
116	4131	2341-0117	2341-0118	ADA AV	Root ball lateral	Letter to homeowner.
117	4131	2341-0229	2341-0230	LEMON AV	Root ball lateral	Letter to homeowner.
118	4131	2341-0267	2341-0260	FOOTHILL BV	Root ball lateral	Letter to homeowner.
119	4131	2341-0270	2341-0271	FOOTHILL BV	Root ball lateral	Letter to homeowner.
120	4131	2341-0274	2341-0275	FOOTHILL BV	Medium joint offset; root ball lateral	Letter to homeowner.

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
121	4131	2341-0287	2341-0286	CARROLL AV	Root ball lateral	Letter to homeowner.
122	4131	2341-0287	2341-0288	ALLEY	Grease; roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
123	4131	2341-0304	2341-CO W	CARROLL AV	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
124	4131	2341-0535	2341-0536	DALTON AV	Root ball lateral	Letter to homeowner.
125	4131	2341-0538	2341-0539	DALTON AV	High water level 40%; root ball lateral	Rodder (10/16/2012); Letter to homeowner.
126	4131	2341-0552	2341-0550	ALLEY	Roots	Rodder (10/17/2012)
127	4131	2341-0574	2298-0234	MEDA AV	Root ball lateral	Letter to homeowner.
128	4131	2341-0582	2341-0583	ALLEY	Roots	Hydro (10/12/2012)
129	4131	2341-0605	2341-0596	PENNSYLVANNIA AV	High water level 30%; high water mark 70%	Hydro (10/12/2012)
130	4131	2341-0626	2341-CO	WABASH AV	Roots; root ball lateral	Hydro (10/17/2012); Letter to homeowner.
131	4131	2341-0632	2341-0631	:VERMONT AV	Root ball lateral	Letter to homeowner.
132	4131	2341-0640	2341-0641	MINNESOTA AV	Debris; roots; root ball lateral	Hydro (10/12/2012); Letter to homeowner.
133	4131	2341-0690	2341-0691	ALLEY	Roots; root ball lateral	Hydro (10/17/2012); Letter to homeowner.
134	4131	2341-0691	2341-0689	ALLEY	Root ball lateral	Letter to homeowner.
135	4131	2341-0692	2341-0693	ALLEY	Root ball lateral	Letter to homeowner.
136	4131	2341-0694	2341-0673	WABASH AV	Roots	Hydro (10/17/2012)
137	4131	2341-0727	2341-0728	VISTA BONITA AV	High water level 50%; camera under water	Hydro (10/18/2012)
138	4124	2340-0006	2340-0005	BUBBLING WELL DR	Root ball lateral	Letter to homeowner.
139	4123	2341-0734	2341-0735	MINNESOTA AV	Root ball lateral	Letter to homeowner.
140	4123	2341-0749	2341-0748	LAUREL AV	Roots; root ball lateral	Hydro (10/18/2012); Letter to homeowner.
141	4122	2297-0012	2298-0177	GRAND AV	Root ball lateral	Letter to homeowner.
142	4122	2298-0184	2298-0183	NORTHRIDGE AV	Grease; roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
143	4122	2340-0001	2340-0002	RAINBOW DR	Root ball lateral	Letter to homeowner.
144	4122	2341-0320	2341-0319	SYCAMORE AV	Roots	Rodder (10/12/2012)
145	4122	2341-0543	2341-0273	MINNESOTA AV	High water level 50%	Rodder (10/16/2012)
146	4122	2341-0578	2341-CO 2	CO/2	Root ball lateral	Letter to homeowner.
147	4122	2342-0223	2342-0036	MAUNALOA AV	Root ball lateral	Letter to homeowner.
148	4121	2297-0011	2297-0012	GRAND AV	Root ball lateral	Letter to homeowner.
149	4121	2297-0019	2297-0020	PARKBROOK DR	Deposits; roots; root ball lateral	Hydro (10/16/2012); Letter to homeowner.
150	4121	2297-0021	2298-0176	PARKBROOK DR	Roots; root ball lateral	Hydro (10/16/2012); Letter to homeowner.
151	4121	2297-0023	2297-0024	EASEMENT	Root ball lateral	Letter to homeowner.
152	4121	2298-0176	2298-0175	FERNPARK DR	Root medium lateral	Letter to homeowner.
153	4121	2298-0177	2298-0176	FERNPARK DR	Root ball lateral	Letter to homeowner.
154	4121	2298-0177	2298-0178	GRAND AV	Root ball lateral	Letter to homeowner.
155	4121	2298-0234	2298-TRNK	MEDA AV	Root ball lateral	Letter to homeowner.
156	4121	2340-0163	2341-0726	GLENDORA AV	Roots	Hydro (10/17/2012)
157	4121	2341-0009	2341-0010	ALLEY	Root ball lateral	Letter to homeowner.
158	4121	2341-0073	2341-0070	ALOSTA AV	Root ball lateral	Letter to homeowner.
159	4121	2341-0102	2341-0096	ADA AV	High water level 40%	Rodder (10/17/2012)
160	4121	2341-0121	2341-0128	GLENWOOD AV	Roots	Rodder (10/17/2012)
161	4121	2341-0203	2341-0202	WABASH AV	Root ball lateral	Letter to homeowner.
162	4121	2341-0223	2341-0224	WALNUT AV	Root ball lateral	Letter to homeowner.

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
163	4121	2341-0230	2341-0231	LEMON AV	Root ball lateral	Letter to homeowner.
164	4121	2341-0261	2341-0262	FOOTHILL BV	Root ball lateral	Letter to homeowner.
165	4121	2341-0264	2341-0265	FOOTHILL BV	Root ball lateral	Letter to homeowner.
166	4121	2341-0269	2341-0273	FOOTHILL BV	Root ball lateral	Letter to homeowner.
167	4121	2341-0276	2341-0277	FOOTHILL BV	Root ball lateral	Letter to homeowner.
168	4121	2341-0305	2341-0304	ALLEY	Root ball lateral	Letter to homeowner.
169	4121	2341-0307	2341-CO W	ALLEY	Roots	Rodder (10/12/2012)
170	4121	2341-0313	2341-0272	MINNESOTA AV	Root ball lateral	Letter to homeowner.
171	4121	2341-0315	2341-0314	SYCAMORE AV	Root ball lateral	Letter to homeowner.
172	4121	2341-0317	2341-0316	SYCAMORE AV	Root ball lateral	Letter to homeowner.
173	4121	2341-0325	2341-0326	CARROLL AV	Root ball lateral	Letter to homeowner.
174	4121	2341-0326	2341-0327	CARROLL AV	Root ball lateral	Letter to homeowner.
175	4121	2341-0330	2341-0312	CARROLL AV	Root ball lateral	Letter to homeowner.
176	4121	2341-0333	2341-0332	MYRTLE AV	Root ball lateral	Letter to homeowner.
177	4121	2341-0533	2341-0532	DALTON AV	Roots; root ball lateral	Rodder (10/16/2012); Letter to homeowner.
178	4121	2341-0535	2341-0534	DALTON AV	Root ball lateral	Letter to homeowner.
179	4121	2341-0542	2341-0269	ALLEY	Root ball lateral	Letter to homeowner.
180	4121	2341-0555A	2341-0556	EASEMENT	Root ball lateral	Letter to homeowner.
181	4121	2341-0574	2341-0573	MEDA AV	Root medium lateral	Letter to homeowner.
182	4121	2341-0580	2341-0581	BENNETT AV	Root ball lateral	Letter to homeowner.
183	4121	2341-0595	2341-0594	ALLEY	Roots	Hydro (10/15/2012)
184	4121	2341-0595	2341-CO	EASEMENT	Root ball lateral	Letter to homeowner.
185	4121	2341-0675	2341-0676	LEADORA AV	Root ball lateral	Letter to homeowner.
186	4121	2341-0696	2341-0695	ALLEY	Roots	Hydro (10/19/2012)
187	4121	2341-0702	2341-0720	ALLEY	Root ball lateral	Letter to homeowner.
188	4121	2341-0705	2341-0706	VIRGINIA AV	Root ball lateral	Letter to homeowner.
189	4121	2341-0706	2341-0707	VIRGINIA AV	Root ball lateral	Letter to homeowner.
190	4121	2341-0707	2298-0186	VIRGINIA AV	Root ball lateral	Letter to homeowner.
191	4121	2341-0720	2341-0719	ALLEY	Root ball lateral	Letter to homeowner.
192	4121	2341-0724	2341-0699	GLENDORA AV	Root ball lateral	Letter to homeowner.
193	4121	2341-0731	2341-0730	WABASH AV	Root ball lateral	Letter to homeowner.
194	4121	2341-0927B	2341-0928	EASEMENT	High water level 50%; camera under water	Hydro (10/18/2012)
195	411B	2297-0015	2297-0017	EASEMENT	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
196	3813	2298-0178	2298-0182	GRAND AV	Roots	Hydro (10/16/2012)
197	3621	2341-0553	2341-0552	ALLEY	Roots	Rodder (10/17/2012)
198	3421	2341-0211	2341-0209	PASADENA AV	Roots	Hydro (10/19/2012)
199	3421	2341-0654	2341-0655	BENNETT AV	Root medium lateral	Letter to homeowner.
200	3321	2341-0092	2341-0091	HEBER ST	Roots	Rodder (10/17/2012)
201	3222	2341-0744	2341-0802	0	Debris; roots; root ball lateral	Hydro (10/18/2012); Letter to homeowner.
202	3221	2341-0297	2341-0300	CARROLL	Roots	Rodder (10/12/2012)
203	3221	2341-0306	2341-CO E	ALLEY	Roots	Rodder (10/12/2012)
204	3221	2341-0325	2341-0324	CARROLL AV	Roots	Rodder (10/16/2012)

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
205	3221	2341-0575	2341-0571	PENNSYLVANNIA AV	Roots	Rodder (10/17/2012)
206	3221	2341-0603	2341-0604	WASHINGTON AV	Roots; root ball lateral	Hydro (10/12/2012); Letter to homeowner.
207	3221	2341-0630	2341-0631	ALLEY	Root medium lateral	Letter to homeowner.
208	3123	2341-0620	2341-0618	ALLEY	Root ball lateral	Letter to homeowner.
209	3123	2341-0692	2341-0691	VISTA BONITA AV	Root ball lateral	Letter to homeowner.
210	3123	2341-0714	2341-0713	SIERRA MADRE AV	Root medium lateral	Letter to homeowner.
211	3123	2341-0749	2341-0670	MINNESOTA AV	Root ball lateral	Letter to homeowner.
212	3122	2298-0202	2298-0203	COMSTOCK AV	Root ball lateral	Letter to homeowner.
213	3122	2340-0011	2341-0920	BANNA AV	Root ball lateral	Letter to homeowner.
214	3122	2341-0081	2341-0080	ALOSTA AV	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
215	3122	2341-0573	2341-0572	MEDA AV	Debris	Rodder (10/17/2012)
216	3122	2341-0609	2341-0610	ALLEY	Root medium lateral	Letter to homeowner.
217	3122	2341-0622	2341-0621	ALLEY	Root ball lateral	Letter to homeowner.
218	3122	2341-0697	2341-0693	ALLEY	Root ball lateral	Letter to homeowner.
219	3122	2341-0715	2341-0714	SIERRA MADRE AV	Root medium lateral	Letter to homeowner.
220	3122	2341-0722	2341-0721	ALLEY	Root medium lateral	Letter to homeowner.
221	3121	2297-0016	2297-0015	EASEMENT	Roots	Rodder (10/12/2012)
222	3121	2298-0216	2298-0215	WESTRIDGE AV	Debris	Hydro (10/16/2012)
223	3121	2298-0259	2298-TRNK	CARROLL AV	Small roots	No action needed.
224	3121	2341-0063	2341-0061	PASADENA AV	Root ball lateral	Letter to homeowner.
225	3121	2341-0116	2341-0115	ADA AV	Root ball lateral	Letter to homeowner.
226	3121	2341-0130	2341-0129	WALNUT AV	Roots	Rodder (10/17/2012)
227	3121	2341-0197	2341-0196	ALLEY	Roots; root ball lateral	Rodder (10/17/2012); Letter to homeowner.
228	3121	2341-0199	2341-0201	ALLEY	Root ball lateral	Letter to homeowner.
229	3121	2341-0203	2341-0204	WABASH AV	Root medium lateral	Letter to homeowner.
230	3121	2341-0209	2341-0208	PASADENA AV	Small roots	No action needed.
231	3121	2341-0218	2341-0226	PEPPER AV	Root ball lateral	Letter to homeowner.
232	3121	2341-0220	2341-0128	WALNUT AV	Root small lateral	Letter to homeowner.
233	3121	2341-0227	2341-0228	TATE AV	Root ball lateral	Letter to homeowner.
234	3121	2341-0251	2341-0261	FOOTHILL BV	Roots; root ball lateral	Hydro (10/19/2012); Letter to homeowner.
235	3121	2341-0253	2341-0254	FOOTHILL BV	Root medium lateral	Letter to homeowner.
236	3121	2341-0268	2341-0269	FOOTHILL BV	Root medium lateral	Letter to homeowner.
237	3121	2341-0274	2341-0273	FOOTHILL BV	Root medium lateral	Letter to homeowner.
238	3121	2341-0279	2341-0928	FOOTHILL BV	Root medium lateral	Letter to homeowner.
239	3121	2341-0281	2341-0282	ALLEY	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
240	3121	2341-0303	2341-0107	ALLEY	Roots; root ball lateral	Rodder (10/12/2012); Letter to homeowner.
241	3121	2341-0309	2341-0310	ALLEY	Root ball lateral	Letter to homeowner.
242	3121	2341-0318	2341-0317	SYCAMORE AV	Roots	Rodder (10/16/2012)
243	3121	2341-0330	2341-0329	CARROLL AV	Root small lateral	Letter to homeowner.
244	3121	2341-0334	2341-0333	MYRTLE AV	Root ball lateral	Letter to homeowner.
245	3121	2341-0546	2341-0545	ALLEY	High water level 50%; debris	Rodder (10/16/2012)
246	3121	2341-0718	2340-0010	BROWN SAGE DR	Small roots	No action needed.

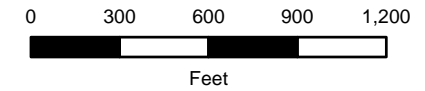


Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
247	3121	2341-0732	2341-0731	WABASH AV	Root medium lateral	Letter to homeowner.
248	3121	2341-0732	2341-0733	W SIERRA MADRE AV	Debris in MH 733; root medium lateral	Hydro (10/18/2012); Letter to homeowner.
249	3121	2342-0023	2342-0022	COLORADO AV	Root medium lateral	Letter to homeowner.

ENCLOSURE 2  
CCTV PROJECT  
YOTV1011A

GLENDORA

QUICK  
MAINTENANCE  
RATING  
(QMR)



Legend

SMD Sanitary Sewers

- QMR**
- 2: MINOR TO MODERATE
  - 3: MODERATE
  - 4: SIGNIFICANT
  - 5: MOST SIGNIFICANT

SMD Manholes

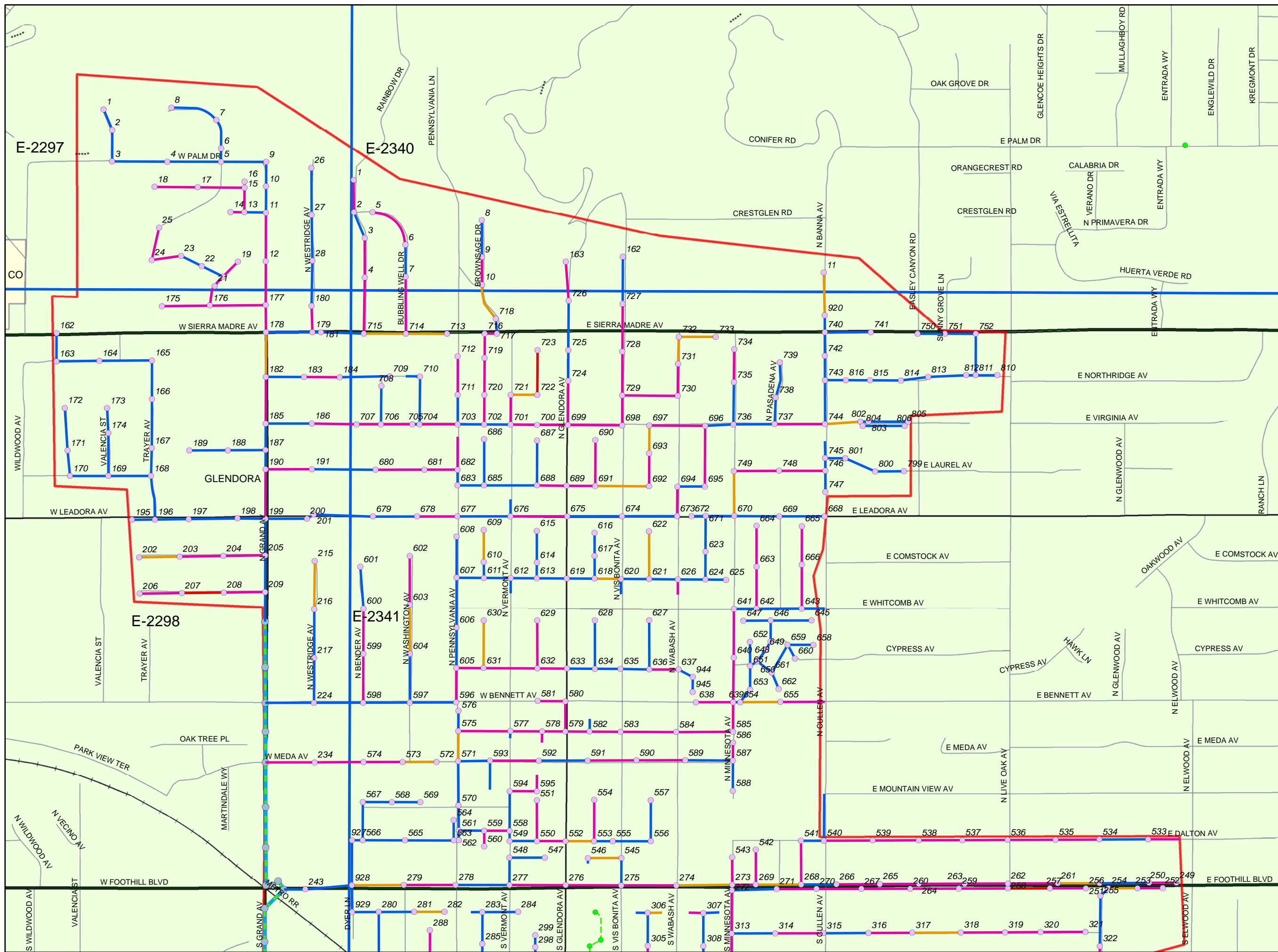
- Other
- Manhole Type**
  - Standard
  - DROP
  - Shallow
  - Trap
  - Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area

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OCTOBER 2012



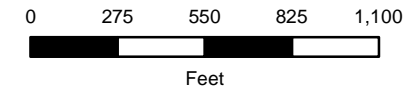
# ENCLOSURE 2

## CCTV PROJECT

### YOTV1011A

## GLENDORA

### QUICK MAINTENANCE RATING (QMR)



### Legend

#### SMD Sanitary Sewers

- QMR**
- 2: MINOR TO MODERATE
  - 3: MODERATE
  - 4: SIGNIFICANT
  - 5: MOST SIGNIFICANT

#### SMD Manholes

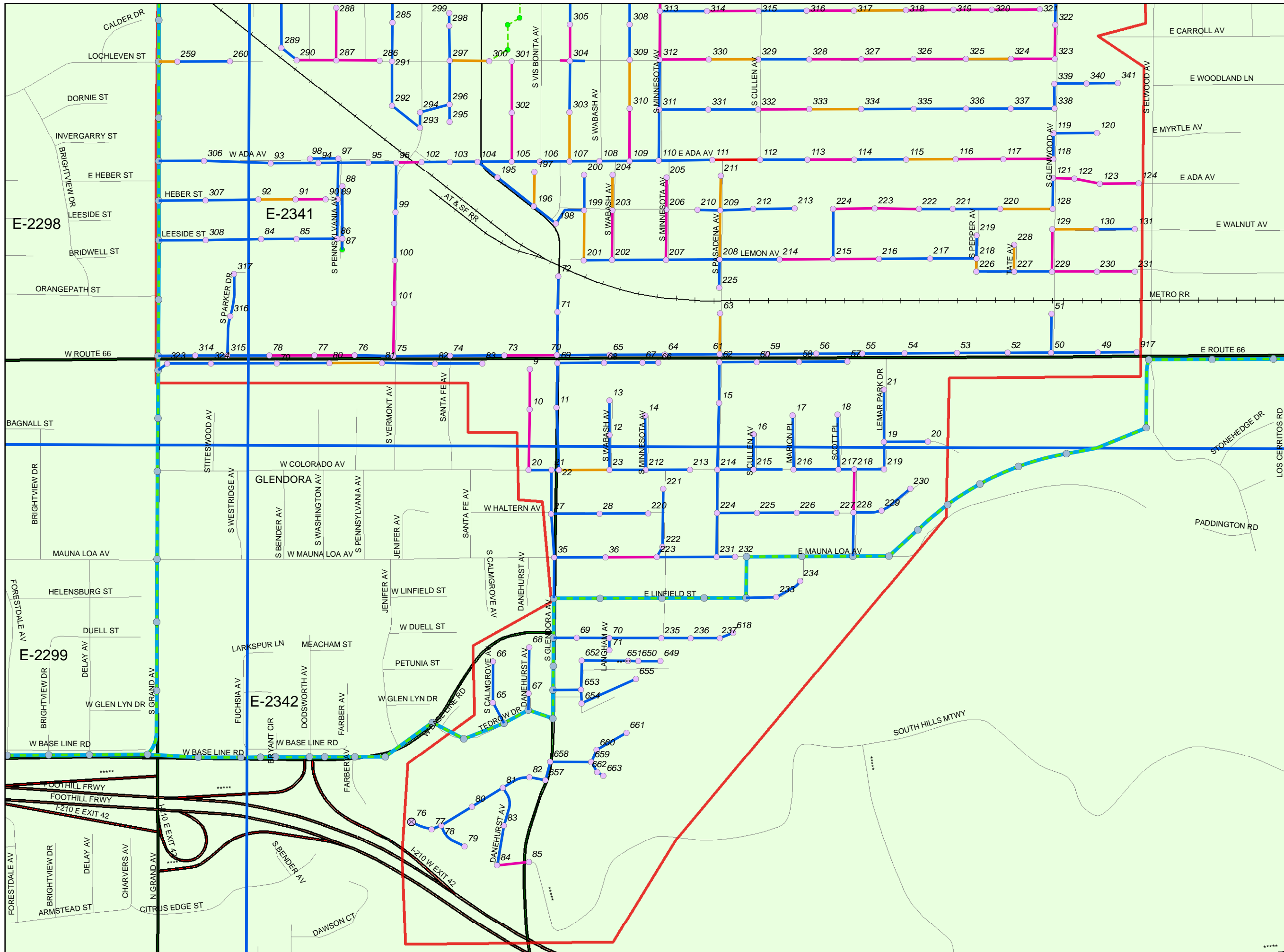
- ⊗ Other
- Manhole Type**
- Standard
- ▲ DROP
- Shallow
- ◆ Trap
- ⊗ Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants

#### Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area

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OCTOBER 2012



**ENCLOSURE 2**  
**HIGH WATER LEVELS**  
**CITY OF GLENDORA (Y0TV1011A)**

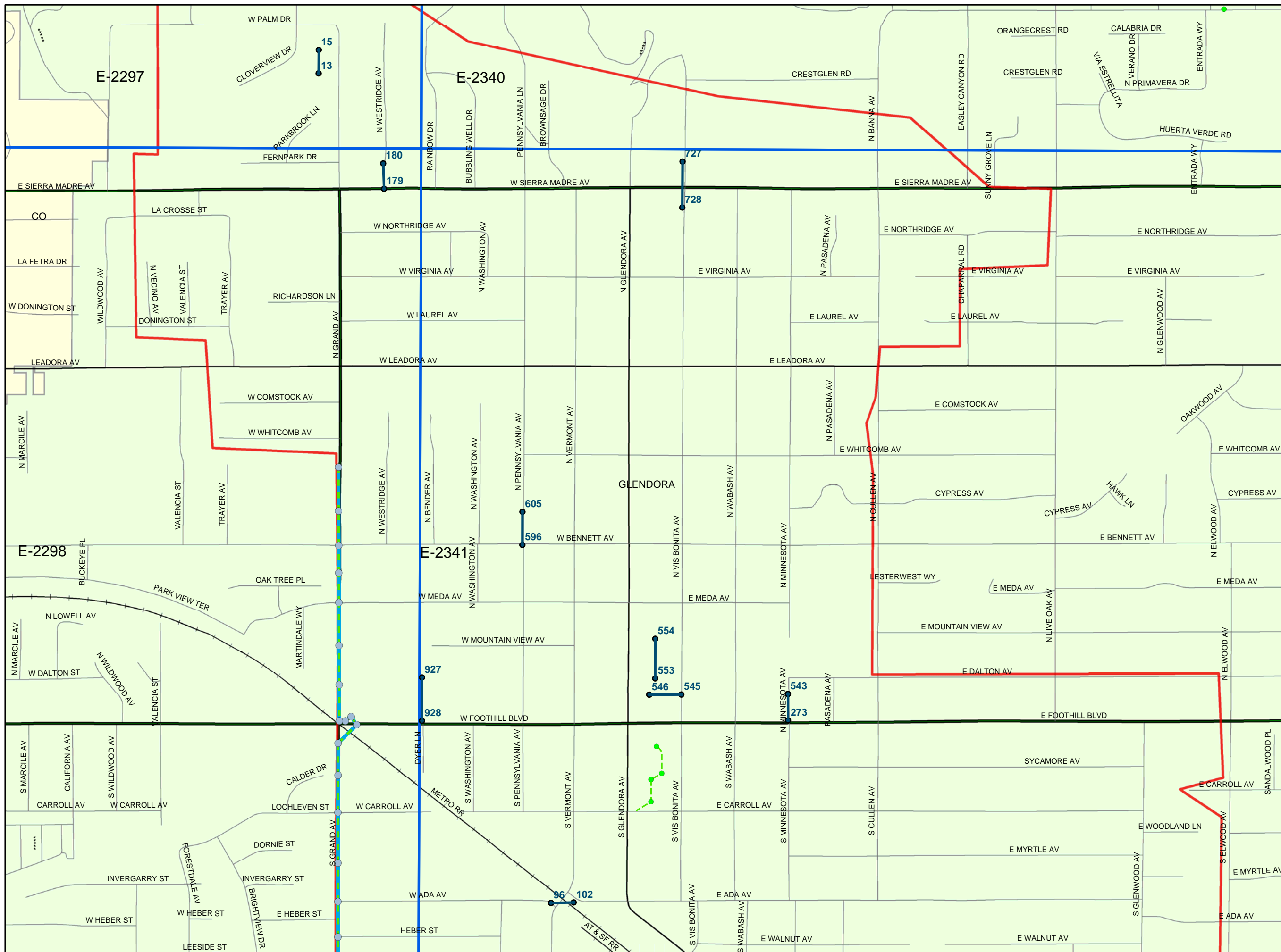
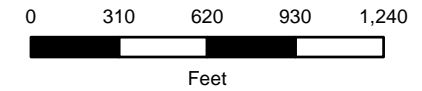
as of 08/31/2011

Item No.	QMR	START MH	END MH	STREET	OBSERVATION	SAG (ft)	
1	4431	2341-0554	2341-0553	ALLEY	Sag	(30% - 50%): 315' - 333'	18
2	4232	2297-0015	2297-0013	EASEMENT	Camera Underwater	Due to debris: 160' - 175'	15
3	4231	2298-0180	2298-0179	WESTRIDGE AV	Camera Underwater	(30% - 80%): 120' - 163'	43
4	4131	2341-0727	2341-0728	VISTA BONITA AV	Camera Underwater	(50% - 80%): 207' - 220'	13
5	4131	2341-0605	2341-0596	PENNSYLVANNIA AV	Sag	(30% - 50%): 8' - 20'	12
6	4122	2341-0543	2341-0273	MINNESOTA AV	Camera Underwater	(30% - 80%): 175' - 206'	31
7	4121	2341-0102	2341-0096	ADA AV	Sag	(30% - 50%): 115' - 130'	15
8	4121	2341-0927B	2341-0928	EASEMENT	High flow	(30% - 50%): 33' - 100'	
9	3121	2341-0546	2341-0545	ALLEY	Sag	(30% - 50%): 7' - 33'	26

ENCLOSURE 2  
CCTV PROJECT  
YOTV1011A

GLENDORA

HIGH WATER LEVEL



Legend

— High Water Level

SMD Manholes

- ⊙ Other
- Manhole Type**
- Standard
- △ DROP
- Shallow
- ◇ Trap
- ⊗ Siphon
- MH: High Water Level
- Ⓜ SMD Pump Stations
- Ⓜ SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area

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OCTOBER 2012



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

{Date}

IN REPLY PLEASE

REFER TO FILE:

SM-1

Current Property Owner

Dear Property Owner:

### **SEWER LATERAL ROOT INTRUSION**

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 courtesy notice informing you that the sewer lateral serving the property located at XXXX, requires maintenance per **County Code 20.24.080 Maintenance of Sewer Laterals.**

***"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 your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.



Prior to your plumbing contractor servicing your lateral, please notify the District's sewer maintenance yard in your area at (XXX) XXX-XXXX 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 Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or [fvillaluna@dpw.lacounty.gov](mailto:fvillaluna@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

RAJESH PATEL  
Assistant Deputy Director  
Sewer Maintenance Division

XXXX

Enc.



XXXX  
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 the portion that may be located within the public right of way (under the asphalt and street landscaping).

### SEWER LATERALS – AREAS OF RESPONSIBILITY



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 3:

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

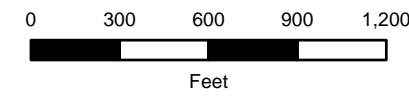
**ENCLOSURE 3**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**CITY OF GLENDORA (Y0TV1011A)**

No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	4131	2297-0015	2297-0017	EASEMENT	Broken: 64'; crack: 75', 89'	Point Repair (sectional liner): 64'	
2	4100	2298-0185	2298-0186	VIRGINIA AV	Broken/fractures: 292'	Structural integrity intact. No action needed.	
3	4100	2298-0196	2298-0197	LEADORA AV	Fractures: 157' - 159'	Point Repair (sleeve): 157' - 159'	
4	5133	2298-0207	2298-0208	WHITCOMB AV	Fracture: 122', 130', 151'	Structural integrity intact. No action needed.	
5	4121	2340-0162	2341-0727	VISTA BONITA AV	Broken: 10'; fracture: 145'	Structural integrity intact. No action needed.	
6	413K	2341-0010	2342-0020	ALLEY	Fracture: 4', 27', 37', 143', 205', 231', 238', 262'; fractures: 77' - 79', 279', 303', 315' - 327', 342'	Lining: MH to MH	348
7	4133	2341-0012	2341-0013	WABASH AV	Fractures: 142' - 154'	Lining: MH to MH	223
8	5100	2341-0014	2342-0212	MINNESOTA AV	Broken/hole: 350'	Point Repair (sectional liner): 350'	
9	5100	2341-0050	2341-0049	ALOSTA AV	Broken: 85'; fracture: 234'; repair patch: 309'	East Yard removed blockage at 309' using saw (04/08/11)	
10	4112	2341-0053	2341-0052	ALOSTA AV	Fractures: 4', 128', 157'	Structural integrity in tact. No action needed.	
11	413G	2341-0077	2341-0078	ALOSTA AV	Broken: 32'; fractures: 38', 87', 96', 102' - 109', 213' - 217', 265' - 270'	Lining: MH to MH	300
12	4131	2341-0129	2341-0229	GLENWOOD AV	Broken/fractures: 72'	Point Repair	
13	4111	2341-0130	2341-0129	WALNUT AV	Fractures: 215', 236'	Structural integrity intact. No action needed.	
14	4100	2341-0203	2341-0204	WABASH AV	Fractures: 78'	Structural integrity intact. No action needed.	
15	4100	2341-0589	2341-0587	MEDA AV	Fractures: 40'; hole: 234'	Structural integrity intact. No action needed.	
16	4200	2341-0689	2341-0688	ALLEY	Fractures: 38'	Sewer line (at 38') was encased during the installation of storm drain. Structural integrity in tact. No action needed.	
17	4100	2341-0726	2340-0163	GLENDORA AV	Fracture: 4'	Structural integrity intact. No action needed.	
18	5144	2341-0726	2341-0725	GLENDORA AV	Fracture multiple: 133', 291'; broken/fractures: 281', 321' - 326'	Sewer line (between 281' - 291') was encased during the installation of storm drain. Lining: MH to MH (CIPP)	338
19	5100	2341-0734	2341-0735	MINNESOTA AV	Hole: 70'	Structural integrity intact. No action needed.	
20	4131	2341-0743	2341-0744	CULLEN AV	Fracture: 4', 69'	Structural integrity intact. No action needed.	
21	4100	2342-0225	2342-0224	HALTERN AV	Fractures: 237'	Structural integrity intact. No action needed.	
22	4235	2342-0231	2342-0224	PASADENA AV	Fractures: 87' - 97'	Lining: MH to MH	290

ENCLOSURE 3  
CCTV PROJECT  
YOTV1011A

GLENDORA

QUICK  
STRUCTURAL  
RATING  
(QSR)



Legend

SMD Sanitary Sewers

- QSR
- 1: MINOR
  - 2: MINOR TO MODERATE
  - 2: MODERATE
  - 4: SIGNIFICANT
  - 5: MOST SIGNIFICANT

SMD Manholes

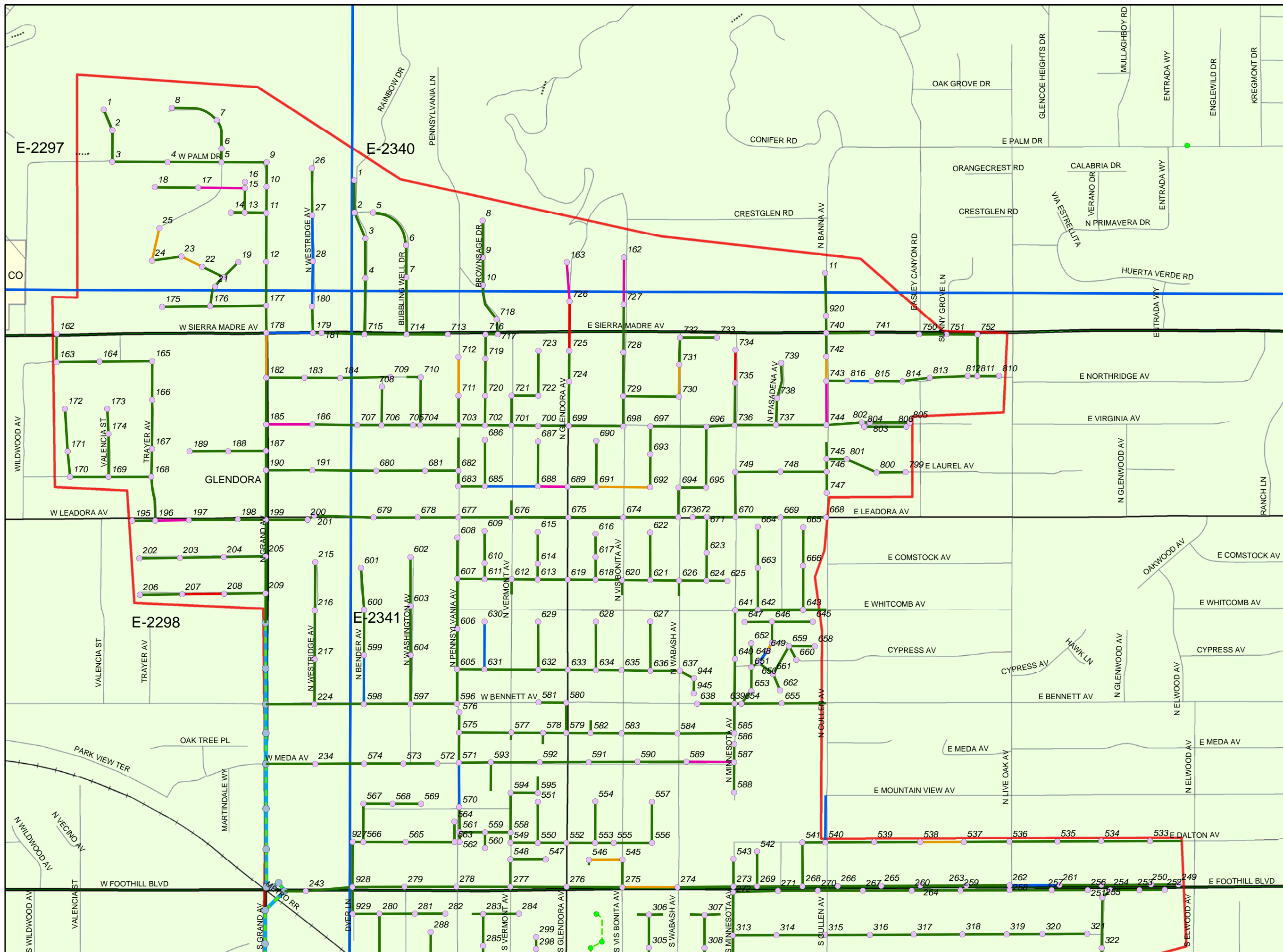
- Other
- Manhole Type
  - Standard
  - DROP
  - Shallow
  - Trap
  - Siphon
  - SMD Pump Stations
  - SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area

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OCTOBER 2012

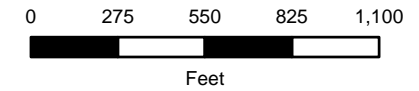




ENCLOSURE 3  
CCTV PROJECT  
YOTV1011A

GLENDORA

QUICK  
STRUCTURAL  
RATING  
(QSR)



Legend

SMD Sanitary Sewers

- QSR
- 1: MINOR
  - 2: MINOR TO MODERATE
  - 2: MODERATE
  - 4: SIGNIFICANT
  - 5: MOST SIGNIFICANT

SMD Manholes

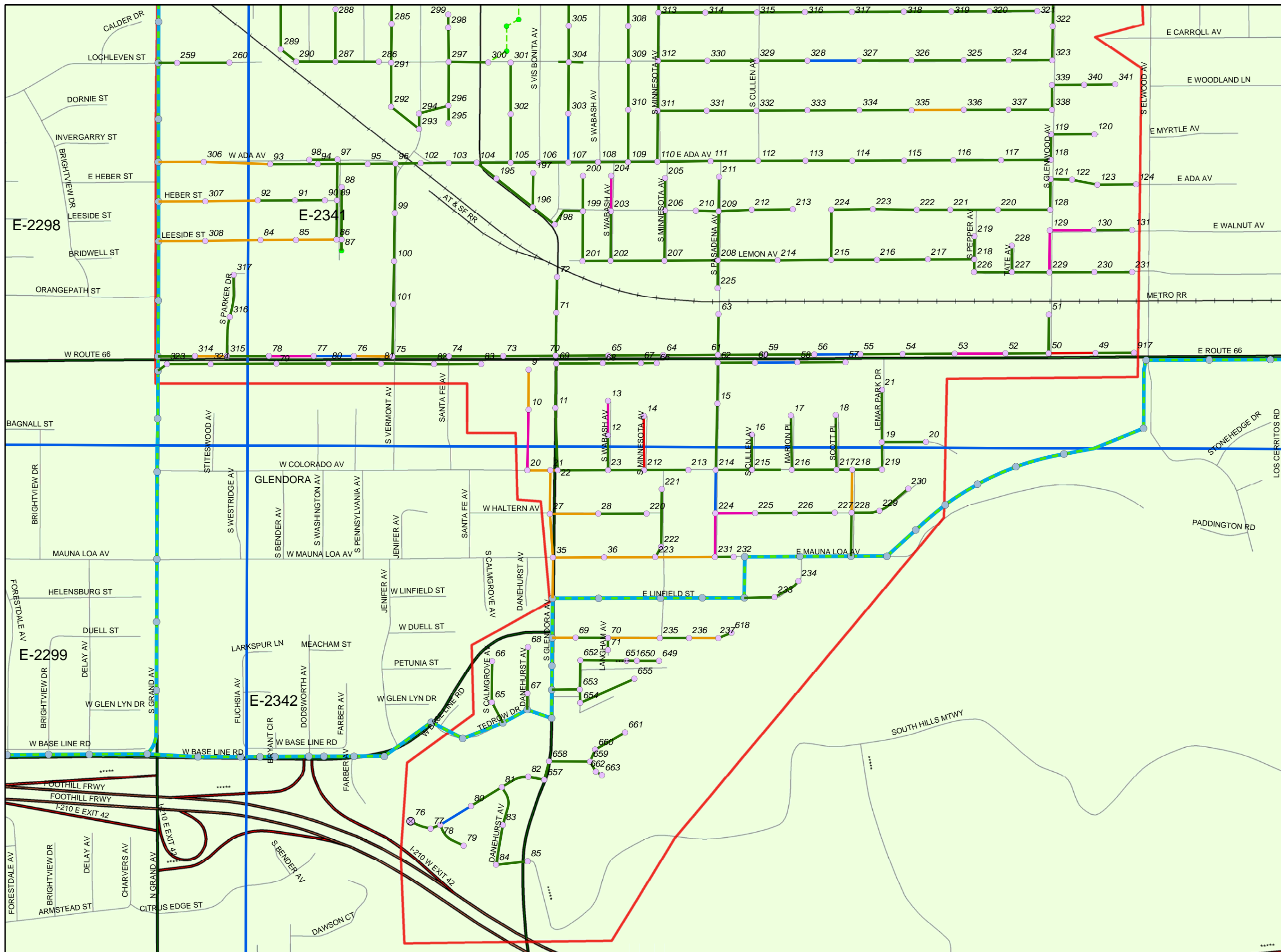
- Other
- Manhole Type
  - Standard
  - DROP
  - Shallow
  - Trap
  - Siphon
  - SMD Pump Stations
  - SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV Project Area

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OCTOBER 2012



## ENCLOSURE 4:

Infrastructure Inspection Reports  
for Grades 4 and 5





## Inspection report

Date: <b>20110331</b>	P.O.#: <b>YOTV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>1258</b>	PSR: <b>98964</b>
Total Pipe Length: <b>REVERSED</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/31/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #:

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2297-0015</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2297-0017</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #:	pipe length: <b>244.96 ft</b>

Reason for inspection: <b>A Maintenance Related</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP Vitrified Clay Pipe</b> Pipe Length: <b>REVERSED</b>
Drain. Area:	Lining Method:
	Category:

Remark:: **REVERSED-ROOTS**

1:600	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2297-0015 REVERSED		115	
	0.00	Water Level, 5 % of cross sectional area			M 2
	26.20	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:01:22	116	
	64.05	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:02:50	117, b	S 4
	75.30	Crack Multiple, from 07 to 09 o'clock, within 8 inch: YES	00:03:19	119, b	S 3
	80.21	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:38	121	
	89.85	Crack Circumferential, from 02 to 06 o'clock, within 8 inch: YES	00:04:00	122, b	S 1
	146.17	Roots Fine Joint, from 08 to 11 o'clock, within 8 inch: YES	00:05:52	124, b	
	148.08	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:06:08	126, b	
	162.64	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, start	00:06:37	128, b	
	216.05	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:08:24	130	
	244.66	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, end	00:09:25		
	244.86	Roots Ball Joint, from 12 to 12 o'clock, 50 %, within 8 inch: YES	00:09:42	131, b	
	244.96	Survey Abandoned, Remark: REVERSED COMPLETED ROOT BALL	00:10:11	133, b	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2100	8	2	10	2.67	2	2.5



National Plant Services Inc.  
 1461 Harbor Ave  
 Long Beach, CA 90813  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20110331</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>1261</b>	PSR: <b>98964</b>
Total Pipe Length: <b>335</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/31/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2297</b>

Street: <b>EASEMENT</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2297-0015</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2297-0017</b>
Location Code: <b>D Easement/Right of Way</b>	Tape/Media #:	pipe length: <b>86.14 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>335</b>
Drain. Area: <b>0015/2297-0017/2297</b>	Lining Method:
	Category:

Remark:: **CAMERA BLOCK ROOTS**

1:225	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2297-0015		69	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	9.64	Roots Medium Joint, from 03 to 09 o'clock, 20 %, within 8 inch: YES	00:01:21	70, b	
	14.86	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:01:38	72, b	
	25.10	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:01:59	74, b	
	31.93	Roots Ball Lateral, from 12 to 12 o'clock, 50 %, within 8 inch: YES	00:02:17	76, b	M 4
	31.93	Tap Factory Made Active, at 03 o'clock, 8", within 8 inch: YES, Remark: Roots	00:02:26	78	
	39.86	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:02:47	79	
	65.66	Roots Ball Joint, from 06 to 12 o'clock, 25, within 8 inch: YES	00:03:34	80, b	
	70.48	Roots Ball Joint, from 12 to 12 o'clock, 50 %, within 8 inch: YES	00:07:35	82, b	
	85.84	Roots Ball Joint, from 12 to 12 o'clock, 25 %, within 8 inch: YES	00:08:20	84, b	
	86.14	Survey Abandoned, Remark: CAMERA BLOCK ROOTS	00:09:38	86, b	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	4122	0	8	8	0	2.67	2.67



## Inspection report

Date: <b>20110224</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>526</b>	PSR: <b>98817</b>
Total Pipe Length: <b>331</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/24/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2298</b>

Street: <b>VIRGINIA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2298-0185</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2298-0186</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>347.06 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>331</b>
Drain. Area: <b>0185/2298-0186/2298</b>	Lining Method:
	Category:

Remark:: **FRACTURE -SAG**

1:850	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2298-0185		171	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 10 % of cross sectional area			M 2
	53.51	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:20	172	
	66.36	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:48	173	
	82.12	Water Level, 10 % of cross sectional area	00:03:19		M 2
	94.27	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:43	174	
	122.28	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:40	175	
	148.08	Water Level, Sag in pipe, 20 % of cross sectional area	00:05:36		M 2
	169.87	Water Level, 10 % of cross sectional area	00:06:15		M 2
	190.75	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:51	176	
	203.50	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:20	177	
	276.69	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:45	178	
	292.55	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:10:20	179, b	S 4
	347.06	Downstream Manhole, Survey Ends 2298-0186	00:12:48	181	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2500	4	10	14	4	2	2.33



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## Inspection report

Date: <b>20110222</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>191</b>	PSR: <b>98708</b>
Total Pipe Length: <b>242</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/22/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2298</b>

Street: <b>LEADORA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2298-0196</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2298-0195</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>232.06 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>242</b>
Drain. Area: <b>0196/2298-0197/2298</b>	Lining Method:
	Category:

Remark:: **NONE**

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2298-0196		117	
	0.00	Water Level, 5 of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	4.96	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:00:41	118	
	54.13	Roots Fine Joint, from 03 to 04 o'clock, within 8 inch: YES	00:02:20	119, b	
	60.93	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:40	121	
	103.69	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:44	122	
	157.62	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:06:45	123, b	S 4
	170.94	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:42	125	
	203.30	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:08:43	126	
	232.06	Downstream Manhole, Survey Ends 2298-0197	00:09:51	127	

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



## Inspection report

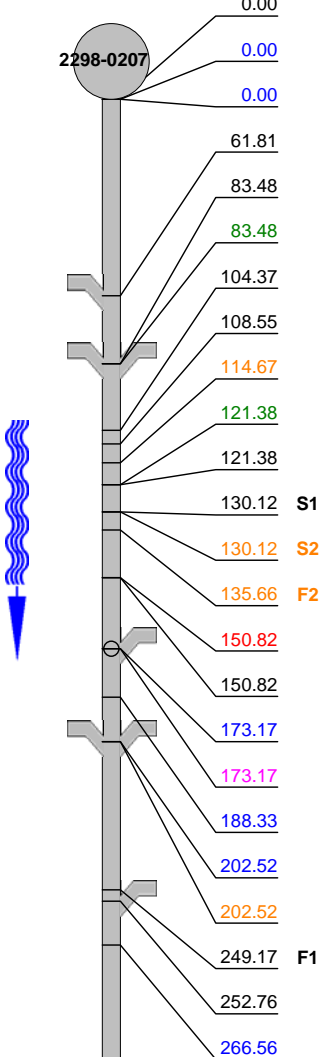
Date: <b>20110222</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>198</b>	PSR: <b>98720</b>
Total Pipe Length: <b>300</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/22/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2298</b>

Street: <b>WHITCOMB AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2298-0207</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2298-0208</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>350.81 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>300</b>
Drain. Area: <b>0207/2298-0208/2298</b>	Lining Method:
	Category:

Remark:: **ROOTS/HOLE**

1:726	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2298-0207		186	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 of cross sectional area			M 2
	61.81	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:52	187	
	83.48	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:44	188	
	83.48	Roots Fine Lateral, from 11 to 05 o'clock, within 8 inch: YES	00:03:46	189, b	M 1
	104.37	Roots Fine Joint, from 03 to 04 o'clock, within 8 inch: YES	00:04:36	191, b	
	108.55	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:04:47	193, b	
	114.67	Crack Multiple, from 12 to 08 o'clock, within 8 inch: YES	00:05:05	195, b	S 3
	121.38	Crack Circumferential, from 01 to 05 o'clock, within 8 inch: YES	00:05:23	197, b	S 1
	121.38	Roots Fine Joint, from 01 to 04 o'clock, within 8 inch: YES	00:05:25	199, b	
	130.12	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES, start	00:05:48	201, b	
	130.12	Crack Multiple, from 11 to 05 o'clock, within 8 inch: YES, start	00:06:02	203	S 3
	135.66	Crack Multiple, from 11 to 05 o'clock, within 8 inch: YES, end	00:06:22	204	S 3
	150.82	Hole Void Visible, from 12 to 03 o'clock, within 8 inch: YES	00:06:45	205, b	S 5
	150.82	Roots Ball Barrell, from 12 to 04 o'clock, 50 %, within 8 inch: YES	00:06:53	207, b	M 5
	173.17	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:08:16	209	M 2
	173.17	Roots Ball Lateral, from 05 to 11 o'clock, 60 %, within 8 inch: YES	00:08:18	210, b	M 4
	188.33	Water Level, Sag in pipe, 15 % of cross sectional area	00:08:55	212	M 2
	202.52	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:09:28	213	M 2
	202.52	Roots Medium Lateral, from 02 to 09 o'clock, 25, within 8 inch: YES	00:09:30	214, b	M 3
	249.17	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES, end	00:11:33	216	
	252.76	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:44	217	
	266.56	Water Level, Sag in pipe, 15 % of cross sectional area	00:12:14	218, b	M 2





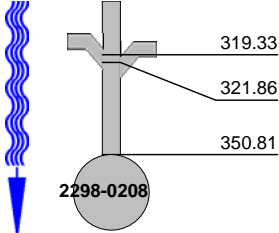
**National Plant Services Inc.**  
 1461 Harbor Ave  
 Long Beach, CA 90813  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20110222</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>198</b>	PSR: <b>98720</b>
Total Pipe Length: <b>300</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/22/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2298</b>

1:726	position	observation	MPEG	photo	grade
	319.33	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:14:01	220	
	321.86	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:14:13	221	
	350.81	Downstream Manhole, Survey Ends 2298-0208	00:15:30	222	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5133	5141	15	25	40	3	2.5	2.67



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## Inspection report

Date: <b>20110221</b>	P.O.#: <b>YOTV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J SALAS</b>	section number: <b>11</b>	PSR: <b>24540</b>
Total Pipe Length:	Survey Customer: <b>LACDPWD</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/21/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #:

Street: <b>VISTA BONITA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2340-0162</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0727</b>
Location Code: <b>C Light Highway</b>	Tap Media #:	pipe length: <b>263.02 ft</b>

Reason for inspection: <b>A Maintenance Related</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP Vitrified Clay Pipe</b> Pipe Length: <b>337</b>
Drain. Area:	Lining Method:
	Category:

Remark:: **FRACTURE**

1:650	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2340-0162	00:00:00	151	
	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
	10.05	Fracture Circumferential, from 04 to 08 o'clock, within 8 inch: YES	00:00:51	152, b	S 2
	51.11	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:17	154	
	145.89	Fracture Multiple, from 12 to 06 o'clock, within 8 inch: YES	00:05:18	155, b	S 4
	147.70	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:05:31	157	
	172.60	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:17	158	
	252.75	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:09:36	159	
	263.02	Downstream Manhole, Survey Ends 2341-0727	00:10:04	160	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4121	2200	6	4	10	3	2	2.5





## Inspection report

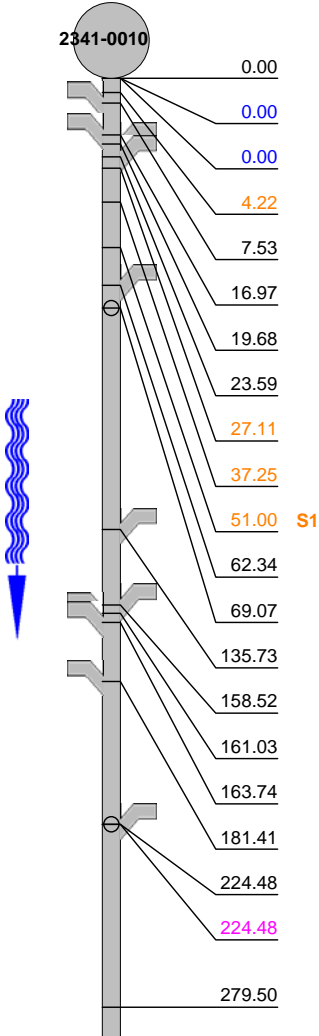
Date: <b>20110322</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>1124</b>	PSR: <b>95487</b>
Total Pipe Length: <b>407</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/22/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2342</b>

Street: <b>ALLEY</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0010</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2342-0020</b>
Location Code: <b>H Alley</b>	Tape/Media #:	pipe length: <b>350.17 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>407</b>
Drain. Area: <b>0020/2342-0010/2341</b>	Lining Method:
	Category:

Remark:: **Cracks**

1:693	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0010		23	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	4.22	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:08	24, b	S 3
	7.53	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:01:22	26	
	16.97	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:58	27	
	19.68	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:02:10	28	
	23.59	Tap Break-In Active, at 09 o'clock, 6", within 8 inch: YES	00:02:26	29	
	27.11	Crack Multiple, from 06 to 09 o'clock, within 8 inch: YES	00:02:39	30, b	S 3
	37.25	Crack Multiple, from 03 to 05 o'clock, within 8 inch: YES	00:03:09	32, b	S 3
	51.00 <b>S1</b>	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:03:52	34, b	S 3
	62.34	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:39	36	
	69.07	Tap Break-In Active, at 01 o'clock, 4", within 8 inch: YES	00:05:21	37	
	135.73	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:54	38	
	158.52	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:08:39	39	
	161.03	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:52	40	
	163.74	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:09:05	41	
	181.41	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES	00:09:47	42	
	224.48	Tap Factory Made Active, at 10 o'clock, 6", within 8 inch: YES, Remark: Roots	00:11:19	43	
	224.48	Roots Ball Lateral, from 12 to 12 o'clock, 75 %, within 8 inch: YES	00:11:21	44, b	M 4
	279.50	Roots Fine Joint, at 10 o'clock, within 8 inch: YES	00:13:30	46, b	





## Inspection report

Date: <b>20110322</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>1124</b>	PSR: <b>95487</b>
Total Pipe Length: <b>407</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/22/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2342</b>

1:693	position	observation	MPEG	photo	grade
	<u>295.86</u>	Roots Ball Lateral, from 12 to 12 o'clock, 50, within 8 inch: YES	00:14:14	48, b	M 4
	<u>295.86</u>	Tap Break-In Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:14:20	50	
	<u>307.91</u>	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:14:52	51	
	<u>310.02</u>	Roots Ball Lateral, from 12 to 12 o'clock, 100 %, within 8 inch: YES	00:15:03	52, b	M 4
	<u>310.02</u>	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES, Remark: Roots	00:15:13	54	
	<u>342.34</u>	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:16:20	55, b	S 4
	<u>350.17</u> F1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:16:49		S 3
	<u>350.17</u>	Downstream Manhole, Survey Ends 2342-0020	00:16:51	57	



## Inspection report

Date: <b>20110318</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B.FUGATE</b>	section number: <b>1005</b>	PSR: <b>95490</b>
Total Pipe Length: <b>229</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>WABASH AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0012</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0013</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>223.38 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>229</b>
Drain. Area: <b>0012/2341-0013/2341</b>	Lining Method:
	Category:

Remark: **TVed upstream**

1:550	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2341-0012		10	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	28.61	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:38	11	
	41.36	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:02:07	12	
	84.63	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:53	13	
	100.29	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:38	14	
	140.45	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:18	15	
	142.16	Crack Multiple, from 12 to 12 o'clock, within 8 inch: NO	00:06:41	16, b	S 3
	143.76 S1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, start	00:06:55	18, b	S 3
	146.27	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:07:13	20, b	S 4
	154.20 F1	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES, end	00:07:44	22	S 3
	173.28	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:15	23	
	194.06	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:10:53	24	
	215.75	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:12:57	25	
	218.46	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:13:24	26	
	223.38	Upstream Manhole, Survey Ends 2341-0013	00:13:40	27	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4133	2200	13	4	17	3.25	2	2.83



National Plant Services Inc.  
 1461 Harbor Ave  
 Long Beach, CA 90813  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20110318</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B.FUGATE</b>	section number: <b>1006</b>	PSR: <b>672516</b>
Total Pipe Length: <b>361</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/18/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>MINNESOTA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0014</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2342-0212</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>353.99 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>361</b>
Drain. Area: <b>0014/2341-0212/2342</b>	Lining Method:
	Category:

Remark:: **NONE**

1:875	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0014		44	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	7.63	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:00:43	45	
	10.24	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:56	46	
	12.65	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:07	47	
	21.89	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:35	48	
	79.11	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:44	49	
	88.25	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:17	50	
	145.37	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:33	51	
	157.92	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:08	52	
	211.23	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:17	53	
	223.98	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:52	54	
	280.90	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:53	55	
	350.07	Hole Void Visible, from 07 to 08 o'clock, within 8 inch: YES	00:14:57	56, b	S 5
	353.99	Downstream Manhole, Survey Ends 2342-0212	00:15:43	58	

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



National Plant Services Inc.  
 1461 Harbor Ave  
 Long Beach, CA 90813  
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## Inspection report

Date: <b>20110330</b>	P.O.#: <b>YOTV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>1247</b>	PSR: <b>95405</b>
Total Pipe Length: <b>REVERSED</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/30/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #:

Street: <b>ALOSTA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0049</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0050</b>
Location Code: <b>B Main Highway - Suburban/Rural</b>	Tape/Media #:	pipe length: <b>309.51 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP Vitrified Clay Pipe</b> Pipe Length: <b>REVERSED</b>
Drain. Area:	Lining Method:
	Category:

Remark:: **REVERSED**

1:775	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0049 REVERSED		136	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	43.67	Water Level, Sag in pipe, 20 % of cross sectional area	00:02:18		M 2
	66.26	Water Level, 5 % of cross sectional area	00:03:07		M 2
	83.93	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:57	137	
	85.33	Broken Soil Visible, from 02 to 05 o'clock, within 8 inch: YES	00:04:07	138, b	S 5
	176.89	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:46	140	
	234.42	Fracture Circumferential, from 01 to 06 o'clock, within 8 inch: YES	00:09:46	141, b	S 2
	309.41	Hole, from 09 to 03 o'clock, within 8 inch: YES	00:13:04	143, b	S 5
	309.51	Survey Abandoned, Remark: REVESED COMPLETED	00:13:36	145, b	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5221	2400	12	8	20	4	2	2.86



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## Inspection report

Date: <b>20110324</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>864</b>	PSR: <b>95405</b>
Total Pipe Length: <b>314</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/24/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>ALOSTA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0050</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0049</b>
Location Code: <b>A Main Highway - Urban</b>	Tape/Media #:	pipe length: <b>4.96 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>314</b>
Drain. Area: <b>0049/2341-0050/2341</b>	Lining Method:
	Category:

Remark:: **MSA HOLE IN PIPE**

1:25	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2341-0050		5	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	4.96	Hole Soil Visible, from 07 to 03 o'clock, within 8 inch: YES	00:00:49	6, b	S 5
	4.96	Survey Abandoned, Remark: CAM BLKD	00:01:16	8	

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



## Inspection report

Date: <b>20110324</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>866</b>	PSR: <b>95409</b>
Total Pipe Length: <b>340</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/24/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>ALOSTA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0053</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0052</b>
Location Code: <b>A Main Highway - Urban</b>	Tape/Media #:	pipe length: <b>296.01 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>340</b>
Drain. Area: <b>0052/2341-0053/2341</b>	Lining Method:
	Category:

Remark:: **NONE**

1:725	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0052		9	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	4.96	Fracture Multiple, from 01 to 08 o'clock, within 8 inch: YES	00:00:37	10, b	S 4
	40.62	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:02:02	12	
	91.35	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:48	13	
	128.96	Crack Circumferential, from 06 to 09 o'clock, within 8 inch: YES	00:05:09	14, b	S 1
	150.53	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:03	16	
	157.62	Crack Circumferential, from 09 to 10 o'clock, within 8 inch: YES	00:06:24	17, b	S 1
	204.07	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:54	19	
	253.25	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:28	20	
	285.80	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:27	21	
	296.01	Downstream Manhole, Survey Ends 2341-0053	00:11:01	22	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4112	2200	6	4	10	2	2	2



## Inspection report

Date: <b>20110325</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>2 Heavy rain</b>	Surveyed By: <b>B.FUGATE</b>	section number: <b>1218</b>	PSR: <b>95433</b>
Total Pipe Length: <b>300</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>ALOSTA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0077</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0078</b>
Location Code: <b>A Main Highway - Urban</b>	Tape/Media #:	pipe length: <b>299.47 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>300</b>
Drain. Area: <b>0077/2341-0078/2341</b>	Lining Method:
	Category:

Remark:: **pipe is 10"**

1:750	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0077		62	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	2.91	Crack Circumferential, from 08 to 04 o'clock, within 8 inch: YES	00:00:27	64, b	S 1
	32.23	Fracture Multiple, from 11 to 03 o'clock, within 8 inch: YES	00:01:42	66, b	S 4
	38.15	Fracture Longitudinal, at 12 o'clock, within 8 inch: YES	00:02:11	68, b	S 3
	86.64	Crack Multiple, from 09 to 05 o'clock, within 8 inch: YES	00:03:41	70, b	S 3
	96.68	Crack Multiple, from 08 to 05 o'clock, within 8 inch: YES, start	00:04:05	72, b	S 3
	134.63	Roots Medium Lateral, from 01 to 05 o'clock, 25, within 8 inch: YES	00:05:29	74, b	M 3
	134.63	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:34	76	
	135.33	Roots Ball Joint, from 08 to 04 o'clock, 65 %, within 8 inch: YES	00:05:52	77, b	
	142.06	Roots Ball Joint, from 09 to 04 o'clock, 50, within 8 inch: YES	00:06:11	79, b	
	147.18	Roots Medium Joint, from 07 to 01 o'clock, 25 %, within 8 inch: YES	00:06:27	81, b	
	152.50	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES, start	00:06:44	83, b	
	202.49	Roots Medium Joint, from 09 to 03 o'clock, 25, within 8 inch: YES, start	00:08:16	85, b	
	245.86	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:14	87	
	245.86	Roots Medium Lateral, from 12 to 12 o'clock, 35, within 8 inch: YES	00:10:16	88	M 3
	271.57	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:11:10	89	
	279.80	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES, end	00:11:26	90	
	279.80	Roots Medium Joint, from 09 to 03 o'clock, 25 %, within 8 inch: YES, end	00:11:31	91	
	294.86	Crack Multiple, from 08 to 04 o'clock, within 8 inch: YES, end	00:12:02	92	S 3
	299.47	Downstream Manhole, Survey Ends 2341-0078	00:12:22	93	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
413G	3222	131	10	141	2.98	2.5	2.94





## Inspection report

Date: <b>20110330</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>1254</b>	PSR: <b>95365</b>
Total Pipe Length: <b>281</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/30/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>GLENWOOD AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0129</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0229</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>281.3 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>281</b>
Drain. Area: <b>0129/2341-0229/2341</b>	Lining Method:
	Category:

Remark:: **Cracks-ROOTS**

1:700	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0129		13	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	18.37	Roots Ball Lateral, from 12 to 12 o'clock, 50 %, within 8 inch: YES	00:02:13	14, b	M 4
	18.37	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:02:17	16	
	54.41	Roots Fine Joint, from 09 to 03 o'clock, within 8 inch: YES	00:03:37	17, b	
	69.77	Crack Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:04:12	19, b	S 3
	71.58	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:23	21	
	72.28	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:04:33	22, b	S 4
	77.20	Roots Fine Joint, from 01 to 05 o'clock, within 8 inch: YES	00:05:01	24, b	
	89.65	Roots Ball Lateral, from 12 to 12 o'clock, 75, within 8 inch: YES	00:05:29	26, b	M 4
	89.65	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:05:35	28	
	90.76	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:05:48	29, b	
	95.37 S1	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, start	00:06:11	31, b	
	148.48	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:51	33	
	193.46 F1	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES, end	00:09:19	34	
	231.01	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:10:33	35, b	
	232.91	Roots Ball Lateral, from 12 to 12 o'clock, 100 %, within 8 inch: YES	00:10:44	37, b	M 4
	233.01	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:10:50	39	
	259.02	Roots Fine Joint, from 12 to 12 o'clock, within 8 inch: YES	00:11:50	40, b	
	281.30	Downstream Manhole, Survey Ends 2341-0229	00:12:44	42	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	4322	7	16	23	3.5	3.2	3.29



## Inspection report

Date: <b>20110310</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B.FUGATE</b>	section number: <b>500</b>	PSR: <b>95364</b>
Total Pipe Length: <b>293</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/10/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>WALNUT AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0130</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0129</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>298.06 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>293</b>
Drain. Area: <b>0129/2341-0130/2341</b>	Lining Method:
	Category:

Remark:: **NONE**

1:750	position	observation	MPEG	photo	grade
		<b>2341-0130</b>			
	0.00	Upstream Manhole, Survey Begins 2341-0130	00:00:00	11	
	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
	5.07	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:48	12	
	5.07	Roots Fine Connection, from 07 to 10 o'clock, within 8 inch: YES	00:00:54	13, b	M 1
	33.07	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:02:19	15	
	107.33	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:04:18	16	
	109.63	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:30	17	
	143.36	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:31	18	
	143.64	Roots Fine Joint, from 04 to 09 o'clock, within 8 inch: YES	00:05:38	19, b	
	153.66	Roots Fine Joint, from 03 to 08 o'clock, within 8 inch: YES	00:06:08	21, b	
	158.88 <b>S1</b>	Roots Fine Joint, from 08 to 05 o'clock, within 8 inch: YES, start	00:06:25	23, b	
	179.09	Roots Medium Joint, from 12 to 05 o'clock, 15 %, within 8 inch: YES	00:07:11	25, b	
	186.44	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:07	27	
	186.44	Roots Fine Lateral, from 03 to 07 o'clock, within 8 inch: YES	00:09:11	28, b	M 1
	214.54	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:10:05	30	
	215.36	Crack Circumferential, from 03 to 05 o'clock, within 8 inch: YES	00:10:32	31, b	S 1
	235.83	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:11:29	33, b	S 4
	291.23 <b>F1</b>	Roots Fine Joint, from 08 to 05 o'clock, within 8 inch: YES, end	00:13:34	35	
	298.06	Downstream Manhole, Survey Ends 2341-0129	00:13:56	36	
		<b>2341-0129</b>			

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4111	2212	5	6	11	2.5	1.5	1.83



## Inspection report

Date: <b>20110311</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>767</b>	PSR: <b>95321</b>
Total Pipe Length: <b>239</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/11/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>WABASH AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0203</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0204</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>200.08 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>239</b>
Drain. Area: <b>0203/2341-0204/2341</b>	Lining Method:
	Category:

Remark.: **A THE FLOW**

1:500	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2341-0203		87	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	78.91	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:03:04	88, b	S 4
	79.01	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:03:18	90	
	79.01	Roots Fine Lateral, from 03 to 09 o'clock, within 8 inch: YES	00:03:21	91, b	M 1
	94.07	Roots Medium Lateral, from 12 to 12 o'clock, 10 %, within 8 inch: YES	00:03:55	93, b	M 3
	94.07	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES, Remark: Roots	00:04:01	95	
	147.98	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:45	96	
	188.34	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:59	97	
	200.08	Upstream Manhole, Survey Ends 2341-0204	00:07:31	98	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	3122	4	8	12	4	2	2.4



## Inspection report

Date: <b>20110303</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>428</b>	PSR: <b>94864</b>
Total Pipe Length: <b>342</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/03/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>MEDA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0589</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0587</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>350.72 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>342</b>
Drain. Area: <b>0587/2341-0589/2341</b>	Lining Method:
	Category:

Remark:: **AGAINST FLOW**

1:875	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2341-0589		2	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	17.39	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:00:54	34, b	
	22.45	Roots Fine Joint, from 08 to 01 o'clock, within 8 inch: YES	00:01:07	36, b	
	32.94 S1	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES, start	00:01:30	38, b	
	40.52	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:49	40	
	40.52	Fracture Multiple, from 07 to 11 o'clock, within 8 inch: NO	00:02:07	41, b	S 4
	144.12	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:33	43	
	202.71	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:48	44	
	202.71	Roots Fine Lateral, from 12 to 12 o'clock, within 8 inch: YES	00:07:50	45, b	M 1
	214.76	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:08:33	47	
	247.71	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:09:43	48	
	275.60	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:10:43	49	
	346.83 F1	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES, end	00:12:57	50	
	350.72	Upstream Manhole, Survey Ends 2341-0587	00:13:22	51	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2211	4	5	9	4	1.67	2.25



## Inspection report

Date: <b>20110225</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>349</b>	PSR: <b>94850</b>
Total Pipe Length: <b>212</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/25/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>ALLEY</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0689</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0688</b>
Location Code: <b>H Alley</b>	Tape/Media #:	pipe length: <b>233.71 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>212</b>
Drain. Area: <b>0688/2341-0689/2341</b>	Lining Method:
	Category:

Remark:: **NONE**

1:575	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0689		231	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	37.22	Water Level, Sag in pipe, 30 % of cross sectional area	00:01:35	232	M 2
	37.71	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: NO	00:01:42	233, b	S 4
	38.68	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:01:52	235, b	S 4
	114.28	Roots Fine Joint, at 01 o'clock, within 8 inch: YES	00:04:26	237, b	
	124.39	Roots Fine Joint, from 10 to 04 o'clock, within 8 inch: YES	00:04:52	239, b	
	155.49	Roots Fine Connection, from 08 to 11 o'clock, within 8 inch: YES	00:05:53	241, b	M 1
	157.33	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:06:06	243	M 2
	157.33	Roots Ball Lateral, from 12 to 12 o'clock, 90 %, within 8 inch: YES	00:06:09	244, b	M 4
	165.01	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:06:45	246	M 2
	165.01	Roots Ball Lateral, from 12 to 12 o'clock, 75 %, within 8 inch: YES	00:06:48	247, b	M 4
	165.01	Roots Fine Joint, from 08 to 04 o'clock, within 8 inch: YES	00:07:03	249, b	
	233.71	Downstream Manhole, Survey Ends 2341-0688	00:09:24	251	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4200	4225	8	19	27	4	2.38	2.7



## Inspection report

Date: <b>20110222</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>154</b>	PSR: <b>24541</b>
Total Pipe Length: <b>280</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/22/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>GLENDORA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0726</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2340-0163</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>223.28 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>280</b>
Drain. Area: <b>0726/2341-0163/2340</b>	Lining Method:
	Category:

Remark: **A THE FLOW**

1:550	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2341-0726		70	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	4.92	Fracture Multiple, from 09 to 03 o'clock, within 8 inch: YES	00:00:51	71, b	S 4
	46.68	Roots Fine Joint, from 03 to 09 o'clock, within 8 inch: YES	00:02:45	73, b	
	87.94	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:04:19	75	
	107.02	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:05:02	76	
	140.15	Roots Tap Connection, from 12 to 12 o'clock, 5 %, within 8 inch: YES	00:06:06	77, b	M 2
	140.15	Tap Break-In Active, at 09 o'clock, 6", within 8 inch: YES	00:06:24	79, b	
	187.54	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:08:16	81	
	212.33	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:09:08	82	
	223.28	Upstream Manhole, Survey Ends 2340-0163	00:09:39	83	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2300	4	6	10	4	2	2.5



## Inspection report

Date: <b>20110222</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>J. Salas</b>	section number: <b>153</b>	PSR: <b>94764</b>
Total Pipe Length: <b>352</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/22/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>GLENDORA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0726</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0725</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>341.34 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>352</b>
Drain. Area: <b>0725/2341-0726/2341</b>	Lining Method:
	Category:

Remark:: **FRACTURE, BROKEN**

1:850	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0726		84	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	13.95	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:21	85	
	27.61	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:59	86	
	132.72	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:05:28	87, b	S 4
	162.84	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:06:32	89	
	170.87	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:55	90	
	235.02	Water Level, Sag in pipe, 20 of cross sectional area	00:08:58		M 2
	248.68	Water Level, 5 % of cross sectional area	00:09:31		M 2
	281.00	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:10:33	91, b	S 4
	291.14	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:11:16	93, b	S 4
	321.26	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: YES	00:12:29	95, b	S 4
	325.48	Broken, from 03 to 09 o'clock, within 8 inch: YES	00:12:51	97, b	S 5
	331.00	Crack Multiple, from 07 to 09 o'clock, within 8 inch: YES	00:13:15	99, b	S 3
	341.34	Downstream Manhole, Survey Ends 2341-0725	00:13:48	101	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5144	2400	24	8	32	4	2	3.2



National Plant Services Inc.  
 1461 Harbor Ave  
 Long Beach, CA 90813  
 Tel: (562) 436-7600, Fax: (562) 495-1528

## Inspection report

Date: <b>20110224</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>357</b>	PSR: <b>94771</b>
Total Pipe Length: <b>236</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/24/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>MINNESOTA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0734</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0735</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>171.03 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>236</b>
Drain. Area: <b>0734/2341-0735/2341</b>	Lining Method:
	Category:

Remark:: **HOLE**

1:425	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0734		149	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	8.26	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:00:40	150	
	31.29	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:25	151	
	33.82	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:36	152	
	69.19	Hole Soil Visible, from 12 to 02 o'clock, within 8 inch: YES	00:03:10	153, b	S 5
	91.44	Tap Factory Made Defective, at 09 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:04:02	155	M 2
	91.44	Roots Fine Lateral, from 12 to 12 o'clock, within 8 inch: YES	00:04:04	156, b	M 1
	91.74	Roots Fine Joint, from 12 to 03 o'clock, within 8 inch: YES	00:04:12	158, b	
	93.68	Tap Factory Made Defective, at 03 o'clock, 6", within 8 inch: YES, Remark: ROOTS	00:04:51	160	M 2
	96.21	Roots Ball Lateral, from 12 to 12 o'clock, 90 %, within 8 inch: YES	00:04:45	161, b	M 4
	147.81	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:06:20	163	
	171.03	Downstream Manhole, Survey Ends 2341-0735	00:07:15	164	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4124	5	13	18	5	2.17	2.57





## Inspection report

Date: <b>20110224</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B FUGATE</b>	section number: <b>366</b>	PSR: <b>94781</b>
Total Pipe Length: <b>315</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>02/24/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2341</b>

Street: <b>CULLEN AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2341-0743</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2341-0744</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>267.53 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>315</b>
Drain. Area: <b>0743/2341-0744/2341</b>	Lining Method:
	Category:

Remark:: **NONE**

1:675	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2341-0743		32	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	4.96	Fracture Multiple, from 12 to 12 o'clock, within 8 inch: NO	00:00:38	33, b	S 4
	22.64	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:01:24	35	
	69.19	Crack Multiple, from 01 to 10 o'clock, within 8 inch: YES	00:02:51	36, b	S 3
	70.75	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:03:09	38	
	78.42	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:34	39	
	121.47	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:04:54	40	
	169.58	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:56	41	
	217.97	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:08:31	42	
	267.53	Downstream Manhole, Survey Ends 2341-0744	00:10:08	43	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2200	7	4	11	3.5	2	2.75



## Inspection report

Date: <b>20110316</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B.FUGATE</b>	section number: <b>698</b>	PSR: <b>94333</b>
Total Pipe Length: <b>267</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/16/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2342</b>

Street: <b>HALTERN AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2342-0225</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2342-0224</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>253.4 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>267</b>
Drain. Area: <b>0224/2342-0225/2342</b>	Lining Method:
	Category:

Remark:: **NONE**

1:625	position	observation	MPEG	photo	grade
	0.00	Upstream Manhole, Survey Begins 2342-0225			180
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	18.20	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:01:09		181
	34.30	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:01:45		182
	80.00	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:03:31		183
	82.70	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:03:43		184
	135.10	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:05:22		185
	144.20	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:44		186
	197.10	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:07:17		187
	206.70	Tap Factory Made Active, at 03 o'clock, 6", within 8 inch: YES	00:07:51		188
	237.80	Fracture Multiple, from 06 to 01 o'clock, within 8 inch: YES	00:08:48	189, b	S 4
	253.40	Downstream Manhole, Survey Ends 2342-0224	00:09:52		191

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



## Inspection report

Date: <b>20110317</b>	P.O.#: <b>Y0TV1011A</b>	Weather: <b>1 Dry</b>	Surveyed By: <b>B.FUGATE</b>	section number: <b>899</b>	PSR: <b>94334</b>
Total Pipe Length: <b>292</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>GLR</b>	Clean Date: <b>03/17/2011</b>	Pre-Cleaned: <b>J Jetting</b>	Map Grid #: <b>2342</b>

Street: <b>PASADENA AV</b>	Flow Control: <b>N Not Controlled</b>	Start MH: <b>2342-0231</b>
City: <b>GLR</b>	Year Renewed:	End MH: <b>2342-0224</b>
Location Code: <b>C Light Highway</b>	Tape/Media #:	pipe length: <b>290.5 ft</b>

Reason for inspection: <b>F Routine Assessment</b>	Dia/Height: <b>C Circular 8/8</b>
Use of Sewer: <b>SS Sanitary</b>	Material: <b>VCP</b> Pipe Length: <b>292</b>
Drain. Area: <b>0224/2342-0231/2342</b>	Lining Method:
	Category:

Remark: **TV UPSTREAM**

1:725	position	observation	MPEG	photo	grade
	0.00	Downstream Manhole, Survey Begins 2342-0231		26	
	0.00	Water Level, 5 % of cross sectional area			M 2
	0.00	Water Mark, 5 % of cross sectional area			M 2
	5.70	Crack Circumferential, from 10 to 01 o'clock, within 8 inch: YES	00:01:00	27, b	S 1
	25.70	Crack Multiple, from 07 to 12 o'clock, within 8 inch: YES	00:01:46	29, b	S 3
	41.50	Crack Multiple, from 11 to 05 o'clock, within 8 inch: YES	00:02:22	31, b	S 3
	53.90	Tap Factory Made Capped, at 09 o'clock, 6", within 8 inch: YES	00:02:59	33	
	84.40	Crack Multiple, from 07 to 05 o'clock, within 8 inch: YES	00:03:51	34, b	S 3
	87.00	Tap Break-In Active, at 09 o'clock, 6", within 8 inch: YES	00:04:09	36	
	87.80 S1	Fracture Multiple, from 07 to 05 o'clock, within 8 inch: YES, start	00:04:18	37, b	S 4
	90.10	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:04:34	39	
	96.80 F1	Fracture Multiple, from 07 to 05 o'clock, within 8 inch: YES, end	00:04:54	40, b	S 4
	102.70	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:05:12	42	
	152.40	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:06:34	43	
	155.90	Crack Circumferential, from 10 to 02 o'clock, within 8 inch: YES	00:06:43	44, b	S 1
	169.40	Crack Multiple, from 08 to 02 o'clock, within 8 inch: YES	00:07:18	46, b	S 3
	203.10	Crack Multiple, from 08 to 02 o'clock, within 8 inch: YES	00:08:20	48, b	S 3
	208.90	Tap Factory Made Capped, at 03 o'clock, 6", within 8 inch: YES	00:08:39	50	
	238.20	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:09:32	51	
	239.30	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:09:51	52, b	S 2
	248.50	Crack Circumferential, from 08 to 02 o'clock, within 8 inch: YES	00:10:15	54, b	S 1
	258.70	Crack Circumferential, from 08 to 01 o'clock, within 8 inch: YES	00:10:41	56, b	S 1
	268.00	Tap Factory Made Active, at 09 o'clock, 6", within 8 inch: YES	00:11:06	58	
	290.50	Upstream Manhole, Survey Ends 2342-0224	00:12:03	59	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4235	2200	29	4	33	2.42	2	2.36