



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

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ALHAMBRA, CALIFORNIA 91802-1460

June 6, 2011

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

Mr. Douglas Prichard, City Manager
City of Rolling Hills Estates
4045 Palos Verdes Drive North
Rolling Hills Estates, California 90274

Attention Mr. Greg Grammer

Dear Mr. Prichard:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT
CONDITION ASSESSMENT PROGRAM REPORT
PROJECT NO. Y0TV0809D**

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 100,652 feet or 60.7 percent of the City of Rolling Hills Estates' 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. Douglas Prichard
June 6, 2011
Page 2

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

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr. Robert Swartz at (626) 300-3367, Monday through Friday, 8 a.m. to 4 p.m., or rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



KEITH E. LEHTO
Assistant Deputy Director
Sewer Maintenance Division



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Enc.

bc: Programs Development (Manning)
KL, MM, RS, FV, File (Project Y0TV0809D), SPINDLE

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

PROJECT NAME: Y0TV0809D	PROJECT MGR: Eric Liu
PROJECT DATE: 07/08/09	CONTACT NO: (626) 300-3369
SUP. DISTRICT(s): 4	MAP PAGE(S): 1544, 1598, 1652 □ 1653
Report By: Eric Liu	Report Date: 04/14/2011

INTRODUCTION

As part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 100,652 feet or 60.7 percent of the City of Rolling Hills Estates sewer system.

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

PROJECT AREA AND DESCRIPTION

Project Y0TV0809D included sewer lines located in the Unincorporated County of Los Angeles area and in the Cities of Carson, Palmdale, Palos Verdes Estates and Rolling Hills Estates. Enclosed for your reference is an overview map of the project area within your City (Enclosure 1).

DEFECT GRADE DESCRIPTION

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

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

MAINTENANCE REPORT

Our inspection revealed that approximately 64.1 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 35.9 percent of the inspected pipe segments within the City of Rolling Hills Estates area had a PACP maintenance grade of 3, 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

Also included on this 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.

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

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	55,977	55.6	287
2: Good	8,500	8.5	33
3: Fair	11,817	11.7	53
4: Poor	23,862	23.7	102
5: Immediate Attention	496	0.5	3
TOTAL	100,652	100.0	478

High Water Levels

Our inspection revealed that approximately 99.4 percent of the system televised has adequate capacity. However, the remaining 0.6 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 of camera underwater or sags in the line. A sewer pipe can be considered at capacity when 50% 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% 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 all 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% 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.

Infiltration

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

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

STRUCTURAL REPORT

Our inspection revealed that approximately 95.0 percent of the inspected pipe segments within the City of Rolling Hills Estates were free of severe structural defects. However, the remaining 5.0 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 18 in the Quick Structural Rating Report Priority List (Enclosure 3) which require a corrective action, the proposed corrective method will be scheduled in the next 24 months as part of the ongoing Accumulative Capital Outlay Project. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. Copies of the actual inspection report for these 18 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	70,524	70.1	349
2: Good	15,789	15.7	71
3: Fair	9,309	9.2	40
4: Poor	3,677	3.7	13
5: Immediate Attention	1,353	1.3	5
TOTAL	100,652	100.0	478

FUTURE PROJECTS

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

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2008-2009	Y0TV0809D	100,652	60.7	COMPLETED
2010-2011	Y0TV0910A	14,747	8.9	REPORT IN PROGRESS
2012-2013	Y0TV1112D	50,335	30.4	FUTURE
TOTAL		165,734	100.0	

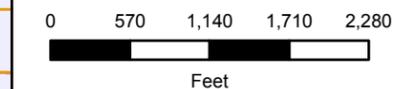
ENCLOSURE 1:

Project Overview Map

OVERVIEW MAP CITY OF ROLLING HILLS ESTATES

CCTV PROJECT
Y0TV0809D

Cities of
Carson, Palmdale,
Palos Verdes Estates,
Rolling Hills Estates &
County Unincorporated



Legend

SMD Sanitary Sewers

— SMD Sanitary Sewers

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

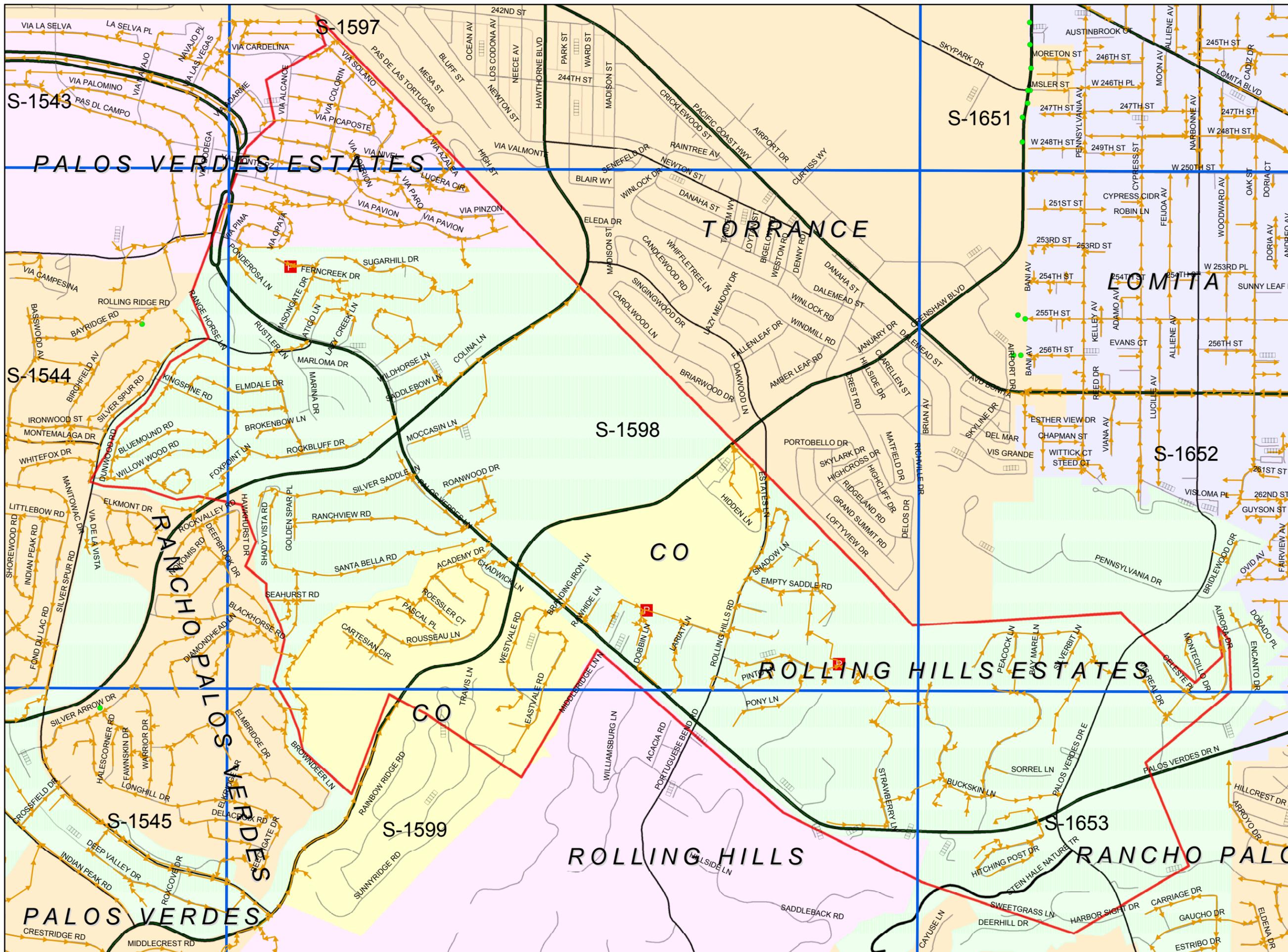
● Non SMD Maintained MH

□ SMD Operations Maps

▭ CCTV PROJECT AREA

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.

MARCH 2011



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 REPORT PRIORITY LIST
CITY OF ROLLING HILLS ESTATES (Y0TV0809D)
as of 07.08.09

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5131	1598-0080	1598-0081	RANCHVIEW RD	Root ball lateral	Letter to homeowner
2	5114	1653-0316	1653-0317	Easement by BUCKSKIN □ DAPPLEGRAY	Roots; grease at lateral	Rodder (01.18.11) Letter to homeowner
3	5100	1653-0347	1653-0346	Easement by PALOS VERDES DR N	Roots; debris	Hydro (02.24.11)
4	4A32	1653-0300	1599-0153	Easement by BUCKSKIN	Camera underwater; root ball lateral	Rodder (12.11.10) Letter to homeowner
5	462B	1598-0199	1598-0200	LARIAT LN	Camera underwater	Rodder (02.24.11)
6	443A	1652-0008	1653-0298	Easement by DAPPLEGRAY	Camera underwater	Rodder (01.11.11)
7	4331	1598-0269	1598-0270	ROCKBLUFF DR	Root ball lateral	Letter to homeowner
8	4331	1652-0005	1653-0298	DAPPLEGRAY LN	Root ball lateral	Letter to homeowner
9	4331	1653-0295	1653-0294	AURORA DR	Roots; root ball lateral	Rodder (12.17.10) Letter to homeowner
10	4314	1598-0270	1598-0271	ROCKBLUFF DR	Root ball lateral	Letter to homeowner
11	4232	1598-0058	1598-0059	SHADY VISTA RD	Roots; deposit settled; root ball lateral	Rodder (12.17.10) Letter to homeowner
12	4231	1544-0560	1544-0559	SILVERSPRING DR	Root ball lateral	Letter to homeowner
13	4231	1598-0070	1598-0069	Easement by PALOS VERDES DR N □ RANCHVIEW	Deposit attached grease; root ball lateral	Rodder (01.04.11) Letter to homeowner
14	4231	1598-0075	1598-0076	RANCHVIEW RD	Small roots; root ball lateral	Rodder (01.04.11) Letter to homeowner
15	4231	1598-0076	1598-0077	RANCHVIEW RD	Root ball lateral	Letter to homeowner
16	4231	1598-0290	1598-0289	ELMDALE DR	Roots; root ball lateral	Rodder (01.04.11) Letter to homeowner
17	4231	1598-0293	1598-0292	ROLLINGWOOD DR	Root ball lateral	Letter to homeowner
18	4231	1598-0488	1598-0489	LARIAT LN	Roots; root ball lateral	Rodder (01.04.11) Letter to homeowner
19	4231	1652-0009	1652-0010	PEACOCK LN	Roots; root ball lateral	Rodder (12.17.10) Letter to homeowner
20	4231	1652-0027	1652-0026	CELESTE PL	Root ball lateral	Letter to homeowner
21	4231	1653-0294	1652-0035	AURORA DR	Roots; root ball lateral	Rodder (12.17.10) Letter to homeowner
22	4227	1598-0272	1598-0273	Easement by PALOS VERDES DR N □ HAWTHORNE	Root ball lateral	Letter to homeowner
23	4221	1599-0134	1599-0133	STRAWBERRY LN	Roots; root ball lateral	Rodder (01.13.11) Letter to homeowner
24	421B	1598-0279	1598-0278	BROKENBOW LN	Roots; root ball lateral	Rodder (01.04.11) Letter to homeowner
25	421A	1598-0156	1598-0157	PALOS VERDES DR NO.	Root ball lateral	Letter to homeowner
26	4218	1598-0215	1598-0214	SHADOW LN	Roots; root ball lateral	Rodder (01.07.11) Letter to homeowner
27	4216	1544-0562	1544-0561	SILVERSPRING DR	Root ball lateral	Letter to homeowner
28	4216	1653-0291	1653-0292	VISTA REAL DR	Root ball lateral	Letter to homeowner
29	4214	1653-0296	1653-0295	AURORA DR	Small roots; root ball lateral	Rodder (12.17.10) Letter to homeowner
30	4212	1544-0585	1544-0586	DUNWOOD RD	Root ball lateral	Letter to homeowner
31	4212	1598-0060	1598-0061	SANTA BELLA RD	Root ball lateral	Letter to homeowner
32	4212	1598-0185	1598-0186	EMPTY SADDLE LN	Grease; root ball lateral	Rodder (01.07.11) Letter to homeowner
33	4211	1598-0051	1598-0052	ALLEY	Roots; root ball lateral	Hydro (02.17.11) Letter to homeowner
34	4211	1598-0198	1598-0199	LARIAT LN	Root ball lateral	Letter to homeowner
35	4211	1598-0302	1598-0303	SADDLEBOW LN	Root ball lateral	Letter to homeowner

ENCLOSURE 2
QUICK MAINTENANCE REPORT PRIORITY LIST
CITY OF ROLLING HILLS ESTATES (Y0TV0809D)
as of 07.08.09

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
36	4200	1598-0039	1598-0040	SHADY VISTA RD	Root ball lateral	Letter to homeowner
37	4200	1598-0222	1598-0221	TANGLEWOOD LN	Root ball lateral	Letter to homeowner
38	4200	1598-0327	1598-0328	Easement by MASON GATE	Corrosion; debris; root ball lateral	Rodder (01.05.11) Letter to homeowner
39	4136	1598-0046	1598-0039	SEAHURST RD	Root ball lateral	Letter to homeowner
40	4133	1544-0571	1544-0572	WILLOW WOOD RD	Intruding lateral liner; root ball lateral	Letter to homeowner
41	4133	1598-0194	1598-0193	Easement by EMPTY SADDLE	Root ball lateral	Letter to homeowner
42	4132	1598-0264	1598-0265	ROCKBLUFF DR	Intruding lateral liner; root ball lateral	Letter to homeowner
43	4132	1652-0024	1653-0291	VISTA REAL DR	Root ball lateral	Letter to homeowner
44	4131	1544-0562	1544-0563	SILVERSPRING DR	Root ball lateral	Letter to homeowner
45	4131	1544-0564	1544-0563	SILVERSPRING DR	Root ball lateral	Letter to homeowner
46	4131	1544-0577	1544-0576	BLUEMOUND RD	Root ball lateral	Letter to homeowner
47	4131	1598-0037	1598-0038	SHADY VISTA RD	Root ball lateral	Letter to homeowner
48	4131	1598-0055	1598-0056	SHADY VISTA RD	Obstacle from broken	Point Repair: CSMD (completed 10.8.09)
49	4131	1598-0168	1598-0167	R □ H TR	Root ball lateral	Letter to homeowner
50	4131	1598-0205	1598-0204	LARIAT LN	Root ball lateral	Letter to homeowner
51	4131	1598-0220	1598-0219	TANGLEWOOD LN	Root ball lateral	Letter to homeowner
52	4131	1598-0254	1598-0255	SILVER SADDLE LN	Root ball lateral	Letter to homeowner
53	4131	1598-0260	1598-0259	PALOS VERDES DR NO.	Small lateral root	No action needed.
54	4131	1598-0274	1598-0267	SILVER EAGLE RD	Intruding lateral liner; root ball lateral	Letter to homeowner
55	4131	1598-0338	1598-0339	LATIGO LN	Root ball lateral	Letter to homeowner
56	4131	1598-0391	1598-0392	Easement by FERNCREEK	Root ball lateral	Letter to homeowner
57	4131	1652-0372	1653-0300	BUCKSKIN LN	Roots; root ball lateral	Rodder (12.17.10) Letter to homeowner
58	4131	1652-0373	1652-0372	BUCKSKIN LN	Root ball lateral	Letter to homeowner
59	412A	1598-0329	1598-0328	Easement by LATIGO	Root ball lateral	Letter to homeowner
60	4126	1598-0223	1598-0222	TANGLEWOOD LN	Root ball lateral	Letter to homeowner
61	4122	1599-0140	1599-0139	Easement by STRAWBERRY	Small roots; deposit settled	Rodder (01.14.11)
62	411D	1598-0267	1598-0268	ROCKBLUFF DR	Roots; root ball lateral	Rodder (01.05.11) Letter to homeowner
63	411A	1544-0558	1544-0557	WILLOW WOOD RD	Root ball lateral	Letter to homeowner
64	411A	1544-0579	1544-0581	BLUEMOUND RD	Root ball lateral	Letter to homeowner
65	411A	1598-0266	1598-0267	ROCKBLUFF DR	Root ball lateral	Letter to homeowner
66	4118	1544-0564	1544-0565	SILVERSPRING DR	Root ball lateral	Letter to homeowner
67	4117	1544-0588	1544-0595	ROLLINGWOOD DR	Root ball lateral	Letter to homeowner
68	4115	1598-0268	1598-0269	ROCKBLUFF DR	Root ball lateral	Letter to homeowner
69	4114	1544-0499	1598-0261	FOXPOINT LN	Intruding lateral liner; root ball lateral	Letter to homeowner
70	4114	1544-0567	1544-0566	WILLOW WOOD RD	Root ball lateral	Letter to homeowner
71	4114	1598-0263	1598-0264	ROCKBLUFF DR	Root ball lateral	Letter to homeowner
72	4113	1598-0275	1598-0274	SILVER EAGLE RD	Root ball lateral	Letter to homeowner

ENCLOSURE 2
QUICK MAINTENANCE REPORT PRIORITY LIST
CITY OF ROLLING HILLS ESTATES (Y0TV0809D)
as of 07.08.09

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
73	4113	1598-0327	1598-0326	Easement by LATIGO	Small roots; root ball lateral	Rodder (01.05.11) Letter to homeowner
74	4112	1544-0566	1544-0558	WILLOW WOOD RD	Root ball lateral	Letter to homeowner
75	4112	1544-0583	1544-0584	DUNWOOD RD	Root ball lateral	Letter to homeowner
76	4112	1544-0586	1544-0587	DUNWOOD RD	Root ball lateral	Letter to homeowner
77	4112	1598-0038	1598-0039	SHADY VISTA RD	Root inside MH 38	Rodder (01.13.11)
78	4112	1598-0064	1598-0065	SANTA BELLA RD	Root ball lateral	Letter to homeowner
79	4112	1598-0065	1598-0066	Easement by SANTA BELLA	Root ball lateral	Letter to homeowner
80	4112	1598-0169	1598-0170	Easement by ROLLING HILLS	Root ball lateral	Letter to homeowner
81	4112	1598-0189	1598-0191	EMPTY SADDLE DR	Root ball lateral	Letter to homeowner
82	4112	1598-0308	1598-0309	HAWTHORNE BV	Roots; root ball lateral	Rodder (01.13.11) Letter to homeowner
83	4112	1598-0338	1598-0337	Easement by LATIGO	Roots	Rodder (01.05.11)
84	4112	1598-0354	1598-0353	PLEASANT HILL DR	Root ball lateral	Letter to homeowner
85	4111	1598-0061	1598-0062	SANTA BELLA RD	Root ball lateral	Letter to homeowner
86	4111	1598-0171	1598-0170	R □ H TR	Debris; root ball lateral	Rodder (01.14.11) Letter to homeowner
87	4111	1598-0382	1598-0383	HAWTHORNE BV	Root ball lateral	Letter to homeowner
88	4111	1599-0132	1599-0131	STRAWBERRY LN	Root ball lateral	Letter to homeowner
89	4100	1544-0582	1544-0583	DUNWOOD RD	Root ball lateral	Letter to homeowner
90	4100	1598-0062	1598-0063	SANTA BELLA RD	Root ball lateral	Letter to homeowner
91	4100	1598-0190	1598-0191	Easement by EMPTY SADDLE	Root ball lateral	Letter to homeowner
92	4100	1598-0191	1598-0192	EMPTY SADDLE DR	Roots; root ball lateral	Rodder (01.07.11) Letter to homeowner
93	4100	1598-0201	1598-0202	ROLLING HILLS RD	Roots; root ball lateral	Rodder (01.07.11) Letter to homeowner
94	4100	1598-0294	1598-0295	Easement between SILVER SPUR □ ROLLING WOOD	Root ball lateral	Letter to homeowner
95	4100	1598-0303	1598-0304	SADDLEBOW LN	Root ball lateral	Letter to homeowner
96	4100	1598-0312	1598-0313	MOCCASIN LN	Root ball lateral	Letter to homeowner
97	4100	1598-0320	1598-0319	STAGECOACH RD	Root ball lateral	Letter to homeowner
98	4100	1598-0323	1598-0325	Easement by FERNCREEK	Deposit; debris; root ball lateral	Rodder (01.05.11) Letter to homeowner
99	4100	1598-0358	1598-0359	HIDDEN VALLEY RD	Root ball lateral	Letter to homeowner
100	4100	1598-0367	1598-0366	Easement by SUGARHILL	Roots; root ball lateral	Rodder (01.05.11) Letter to homeowner
101	4100	1598-0369	1598-0368	SUGARHILL DR	Root ball lateral	Letter to homeowner
102	4100	1653-0313	1653-0312	Easement by BUCKSKIN	Root ball lateral	Letter to homeowner
103	4100	1653-0320	1653-0319	DAPPLEGRAY LN	Root ball lateral	Letter to homeowner
104	4100	1653-0340	1653-0339	Easement by PALOS VERDES DR E	Root ball lateral	Letter to homeowner
105	4100	1653-0344	1653-0345	Easement by PALOS VERDES DR N	Root ball lateral	Letter to homeowner
106	3B00	1652-0014	1652-0015	CLUB VIEW LN	Deposit settled; sag	Rodder (12.17.10)
107	362E	1653-0309	1599-0138	Easement by STRAWBERRY	Debris; deposit settled; roots; camera underwater; root ball lateral	Rodder (12.17.10) Letter to homeowner

ENCLOSURE 2
QUICK MAINTENANCE REPORT PRIORITY LIST
CITY OF ROLLING HILLS ESTATES (Y0TV0809D)
as of 07.08.09

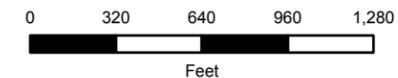
Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
108	3511	1653-0305	1653-0306	Easement by BUCKSKIN	Construction debris; rocks	Rodder (01/19/11)
109	3319	1652-0025	1652-0024	VISTA REAL DR	Root ball lateral	Letter to homeowner
110	3313	1599-0135	1599-0134	STRAWBERRY LN	Root ball lateral	Letter to homeowner
111	3222	1598-0078	1598-0079	RANCHVIEW RD	Root ball lateral	Letter to homeowner
112	321B	1598-0278	1598-0277	BROKENBOW LN	Root ball lateral	Letter to homeowner
113	3213	1598-0210	1598-0211	ROLLING HILLS RD	Roots	Rodder (01/13/11)
114	3212	1544-0598	1598-0293	ROLLINGWOOD DR	Root ball lateral	Letter to homeowner
115	3211	1598-0167	1598-0172	R □ H TR	Root ball lateral	Letter to homeowner
116	3211	1598-0174	1598-0173	Easement by ROLLING HILLS	Tap break-in intruding; root	Hydro (02/23/11)
117	3200	1598-0182	1598-0184	Easement by EMPTY SADDLE	Intruding lateral liner	Letter to homeowner
118	3124	1599-0144	1599-0143	PALOS VERDES DR NO.	Roots	Rodder (01/14/11)
119	3121	1598-0054	1598-0252	SILVER SADDLE LN	Root ball lateral	Letter to homeowner
120	311H	1598-0059	1598-0060	SHADY VISTA RD	Roots; root ball lateral	Rodder (12/17/10) Letter to homeowner
121	311C	1544-0575	1544-0574	BLUEMOUND RD	Root ball lateral	Letter to homeowner
122	311A	1544-0578	1544-0579	BLUEMOUND RD	Root ball lateral	Letter to homeowner
123	311A	1598-0209	1598-0207	SINGLETREE LN	Root ball lateral	Letter to homeowner
124	3118	1598-0296	1598-0295	SILVER SPUR RD	Roots	Rodder (01/05/11)
125	3116	1544-0597	1544-0598	ROLLINGWOOD DR	Root ball lateral	Letter to homeowner
126	3116	1598-0086	1598-0085	PALOS VERDES DR NO.	Root ball lateral	Letter to homeowner
127	3115	1544-0573	1544-0572	BLUEMOUND RD	Root ball lateral	Letter to homeowner
128	3115	1544-0584	1544-0585	DUNWOOD RD	Root ball lateral	Letter to homeowner
129	3115	1598-0194	1598-0195	EMPTY SADDLE DR	Root ball lateral	Letter to homeowner
130	3114	1544-0590	1544-0591	KINGSPINE RD	Roots	Rodder (01/19/11)
131	3114	1598-0212	1598-0216	ROLLING HILLS RD	Roots	Rodder (01/13/11)
132	3114	1652-0028	1653-0296	MONTECILLO DR	Small roots	Rodder (12/17/10)
133	3113	1598-0261	1598-0262	FOXPOINT LN	Root ball lateral	Letter to homeowner
134	3113	1652-0012	1652-0013	BAY MARE LN	Small lateral root	No action needed.
135	3112	1598-0092	1598-0001	GOLDRING PL	Root ball lateral	Letter to homeowner
136	3112	1598-0226	1598-0225	SADDLEHORN LN	Root ball lateral	Letter to homeowner
137	3112	1598-0227	1598-0226	SADDLEHORN LN	Root ball lateral	Letter to homeowner
138	3112	1598-0275	1598-0276	SILVER EAGLE RD	Root ball lateral	Letter to homeowner
139	3112	1598-0309	1598-0310	HAWTHORNE BV	Root ball lateral	Letter to homeowner
140	3112	1652-0002	1652-0003	CLUB VIEW LN	Small lateral root	No action needed.
141	3112	1653-0219	1653-0300	BUCKSKIN LN	Small lateral root	No action needed.
142	3112	1653-0352	1653-0351	HITCHING POSTDR	Root ball lateral	Letter to homeowner
143	3111	1598-0211	1598-0212	ROLLING HILLS RD	Small roots	Rodder (01/13/11)
144	3111	1653-0319	1653-0318	DAPPLEGRAY LN	Small lateral root	No action needed.

ENCLOSURE 2
 QUICK MAINTENANCE REPORT PRIORITY LIST
 CITY OF ROLLING HILLS ESTATES (Y0TV0809D)
 as of 07.08.09

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
145	3100	1598-0058	1598-0057	SHADY VISTA RD	Root ball lateral	Letter to homeowner
146	3100	1598-0152	1598-0156	PALOS VERDES DR NO.	Root ball lateral	Letter to homeowner
147	3100	1598-0153	1598-0152	BRANDING IRON LN	Small lateral root	No action needed.
148	3100	1598-0161	1598-0162	ROLLING HILLS RD	Tap break-in intruding	Letter to homeowner
149	3100	1598-0184	1598-0185	EMPTY SADDLE LN	Small lateral root	No action needed.
150	3100	1598-0186	1598-0189	EMPTY SADDLE DR	Grease; root ball lateral	Rodder (01.07.11) Letter to homeowner
151	3100	1598-0187	1598-0244	Easement (Baseball field)	Corrosion	Rodder (01.14.11)
152	3100	1598-0221	1598-0220	TANGLEWOOD LN	Root ball lateral	Letter to homeowner
153	3100	1598-0257	1598-0258	PALOS VERDES DR NO.	Root ball lateral	Letter to homeowner
154	3100	1598-0340	1598-0341	LAZY CREEK LN	Roots	Rodder (01.05.11)
155	3100	1598-0375	1598-0322	MASONGATE DR	Roots	Rodder (01.05.11)
156	3100	1652-0001	1652-0002	CLUB VIEW LN	Small lateral root	No action needed.
157	3100	1653-0310	1653-0314	BUCKSKIN LN	Small lateral root	No action needed.
158	3100	1653-0331	1653-0330	Easement between PALOS VERDES DR E □ DAPPLEGREY	Deposit settled	Hydro (02.24.11)

ENCLOSURE 2
CCTV PROJECT
YOTV0809D

ROLLING HILLS
ESTATES
QUICK
MAINTENANCE
RATING
(QMR)



Legend

SMD Sanitary Sewers

- QMR
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION

SMD Manholes

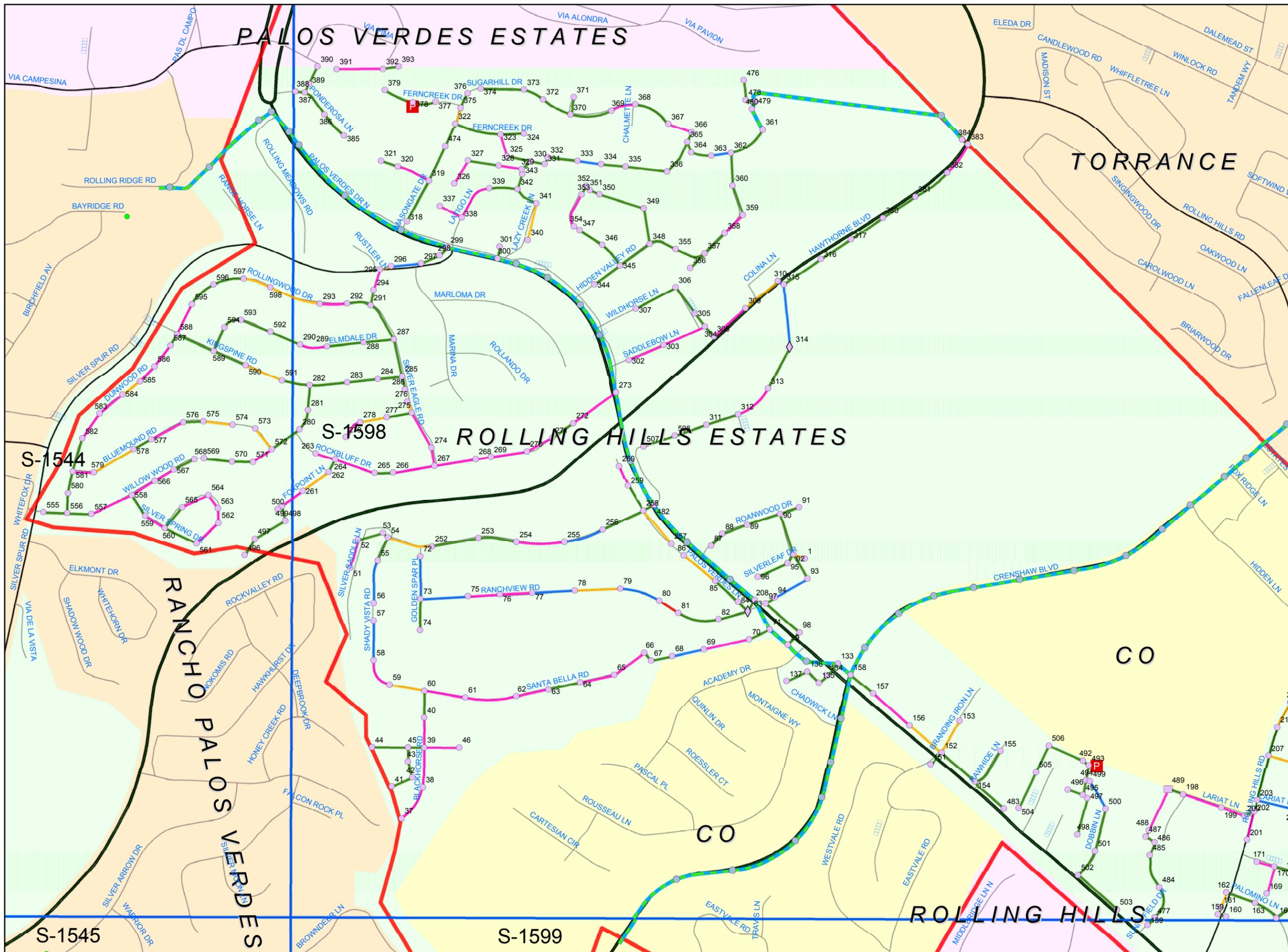
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

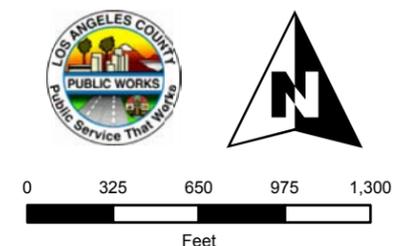
Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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MARCH 2011





Legend

SMD Sanitary Sewers

- QMR**
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION

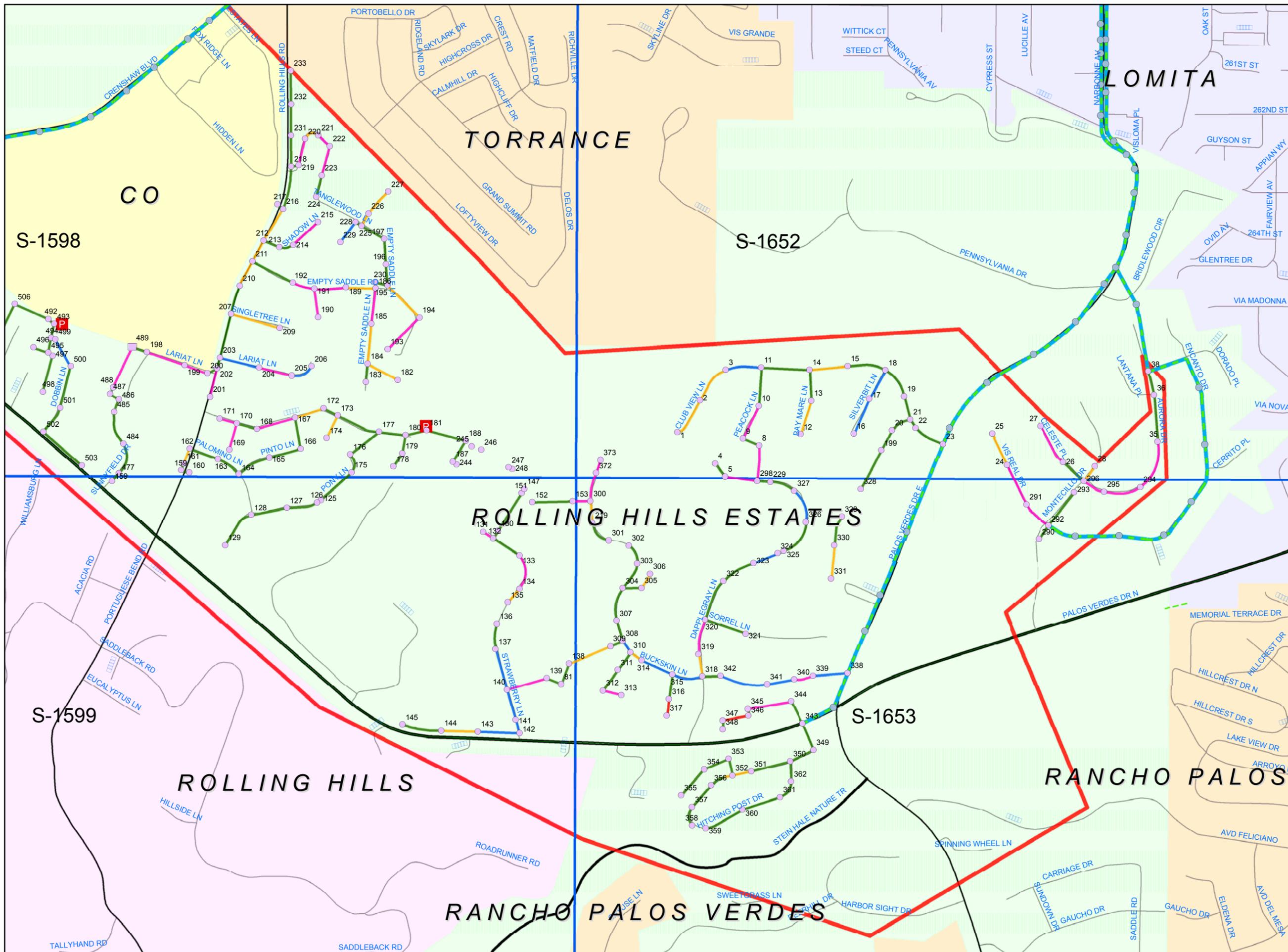
SMD Manholes

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

Maintained by Others:

- Trunk Sewerlines
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ENCLOSURE 2
HIGH WATER LEVELS
CITY OF ROLLING HILLS ESTATES (Y0TV0809D)
as of 07/08/09

Item No.	QMR	START MH	END MH	STREET	OBSERVATION	SAG (ft)
1	4A32	1653-0300	1599-0153	Easement by BUCKSKIN	Sag (30' - 80'): Start MH 300 - 40'	40
2	462B	1598-0199	1598-0200	LARIAT LN	Sag (30' - 80'): 120' - 190'	70
3	443A	1652-0008	1653-0298	Easement by DAPPLEGRAY	Sag (30' - 80'): 220' - End MH 298	62

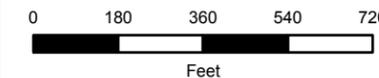
ENCLOSURE 2

CCTV PROJECT

YOTV0809D

ROLLING HILLS
ESTATES

HIGH WATER LEVELS



Legend

— High Water Levels

SMD Manholes

⊗ Other

Manhole Type

● Standard

▲ DROP

■ Shallow

◇ Trap

⊗ Siphon

● MH: High Water Levels

■ SMD Pump Stations

■ SMD Treatment Plants

Maintained by Others:

— Trunk Sewerlines

- - - Non SMD Sanitary Sewers

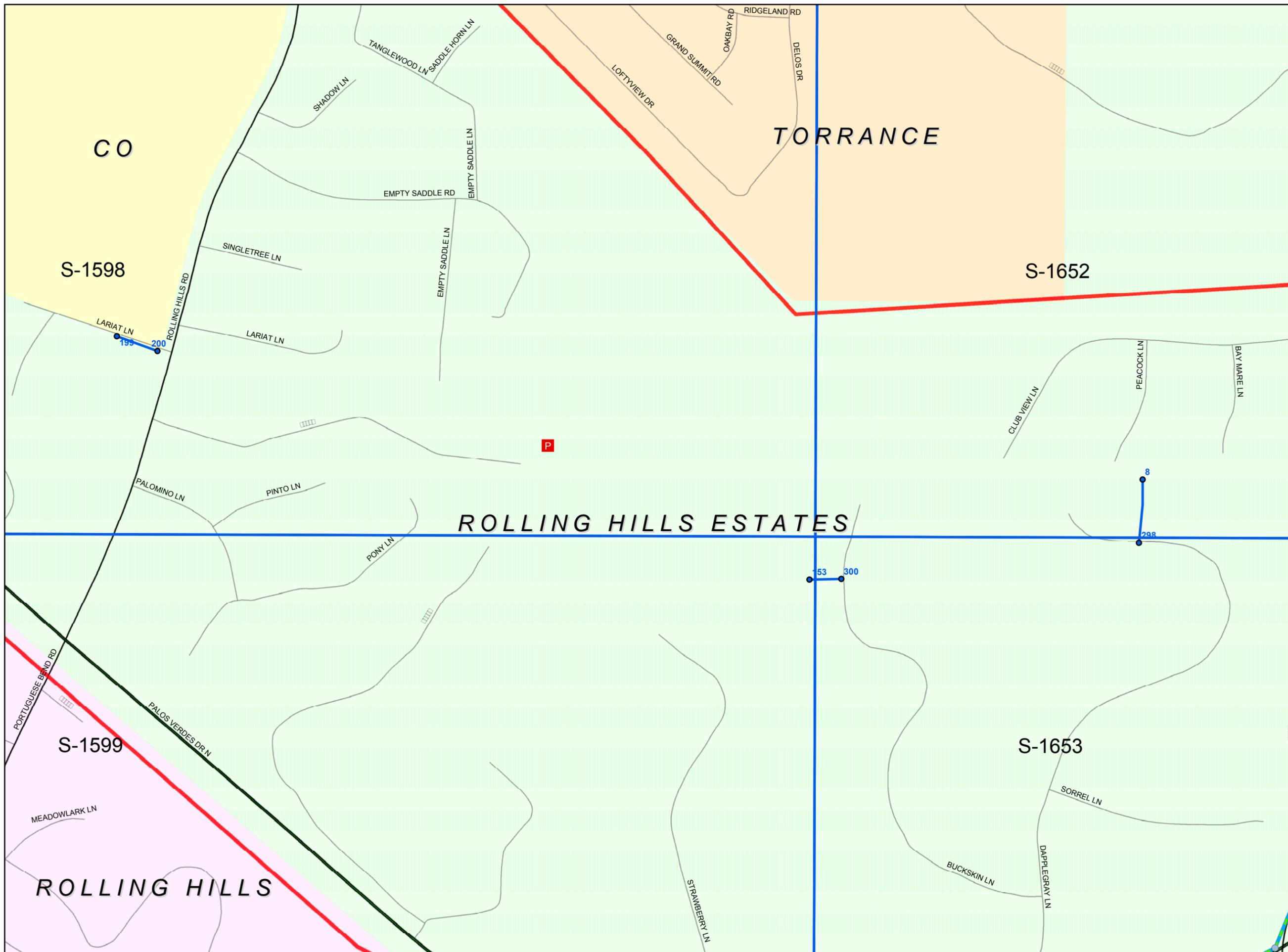
● Non SMD Maintained MH

□ SMD Operations Maps

□ CCTV PROJECT AREA

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MARCH 2011





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

August 19, 2010

Current Property Owner
3476 Marengo Ave
Altadena, CA 91001

Dear Property Owner:

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

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

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

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

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

IN REPLY PLEASE

REFER TO FILE:

SM-1

Current Property Owner
August 19, 2010
Page 2

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

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

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

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

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

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

Very truly yours,

GAIL FARBER
Director of Public Works

JOHN T. WALKER
Assistant Deputy Director
Sewer Maintenance Division

PK:

Enc.

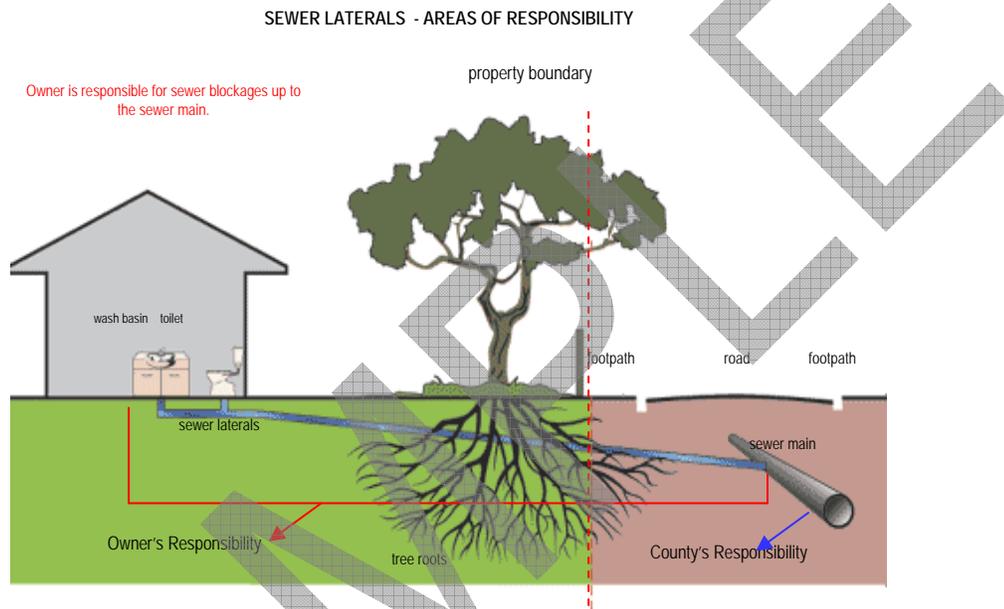
bc: JW, KL, RS, FV, RH, File (Lateral Notice), SPINDLE

3476 MARENGO AVE
ALTADENA
Roots at Lateral Connection



Minimizing Sewer Overflows and Damage to Your Home

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



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

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

The three methods we suggest are:

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

ENCLOSURE 3:

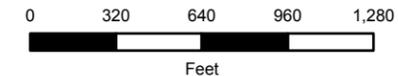
- Quick Structural Rating Report
Priority List
- Quick Structural Rating Map

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF ROLLING HILLS ESTATES (Y0TV0809D)
as of 07/08/09

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5243	1598-0260	1598-0259	PALOS VERDES DR N.	Broken/deformed: 194'-197'	Point Repair: CSMD (completed 08/12/09)	
2	5132	1598-0055	1598-0056	SHADY VISTA RD	Hole with visible void: 313'	Point Repair: CSMD (completed 10/08/09)	
3	5112	1544-0561	1544-0560	SILVERSPRING DR	Hole at base of MH 1544-0560	CSMD to repair base of MH 1544-0560	
4	5111	1598-0275	1598-0274	SILVER EAGLE RD	Hole at base of MH 1598-0274	CSMD to repair base of MH 1598-0274	
5	5100	1598-0058	1598-0057	SHADY VISTA RD	Hole with visible soil: 42'	Lining: MH to MH	350
6	4211	1598-0037	1598-0038	SHADY VISTA RD	Broken: 2', 193'	Structural integrity in tact. No action needed.	
7	413H	1598-0079	1598-0080	RANCHVIEW RD	Fracture: 69'; cracks	Structural integrity in tact. No action needed.	
8	4133	1598-0192	1598-0211	EMPTY SADDLE DR	Fractures and cracks: multiple locations	Lining: MH to MH	324
9	4132	1598-0097	1598-0098	PALOS VERDES DR NORTH	Fractures and cracks: multiple locations	Lining: MH to MH; CSMD to repair base of MH 1598-0098	345
10	4131	1598-0293	1598-0292	ROLLINGWOOD DR	Fractures: 54', 151'	Structural integrity in tact. No action needed.	
11	4131	1598-0272	1598-0273	Easement by PALOS VERDES DR N	Fractures: 329'	Structural integrity in tact. No action needed.	
12	4131	1652-0372	1653-0300	BUCKSKIN LN	Broken: 3'-6'	Lining: MH to MH	200
13	4128	1598-0289	1598-0288	ELMDALE DR	Fractures and cracks: multiple locations	Lining: MH to MH	355
14	4121	1598-0198	1598-0199	LARIAT LN	Fractures: 287'	Structural integrity in tact. No action needed.	
15	4121	1653-0355	1653-0354	Easement by HITCHING POST	Fractures: 56'; cracks	Lining: MH to MH	262
16	4112	1598-0296	1598-0297	SILVER SPUR RD	Fractures: 62'-67'	Point Repair: CSMD (completed 02/23/11)	
17	4100	1598-0060	1598-0061	SANTA BELLA RD	Fractures: 213'	Point Repair: CSMD (completed 01/13/11)	
18	4100	1598-0502	1598-0501	DOBBIN LN	Fractures: 178'-182'	Lining: MH to MH	193

ENCLOSURE 3
 CCTV PROJECT
 YOTV0809D

ROLLING HILLS
 ESTATES
 QUICK
 STRUCTURAL
 RATING
 (QSR)



Legend

SMD Sanitary Sewers

- QSR**
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION

SMD Manholes

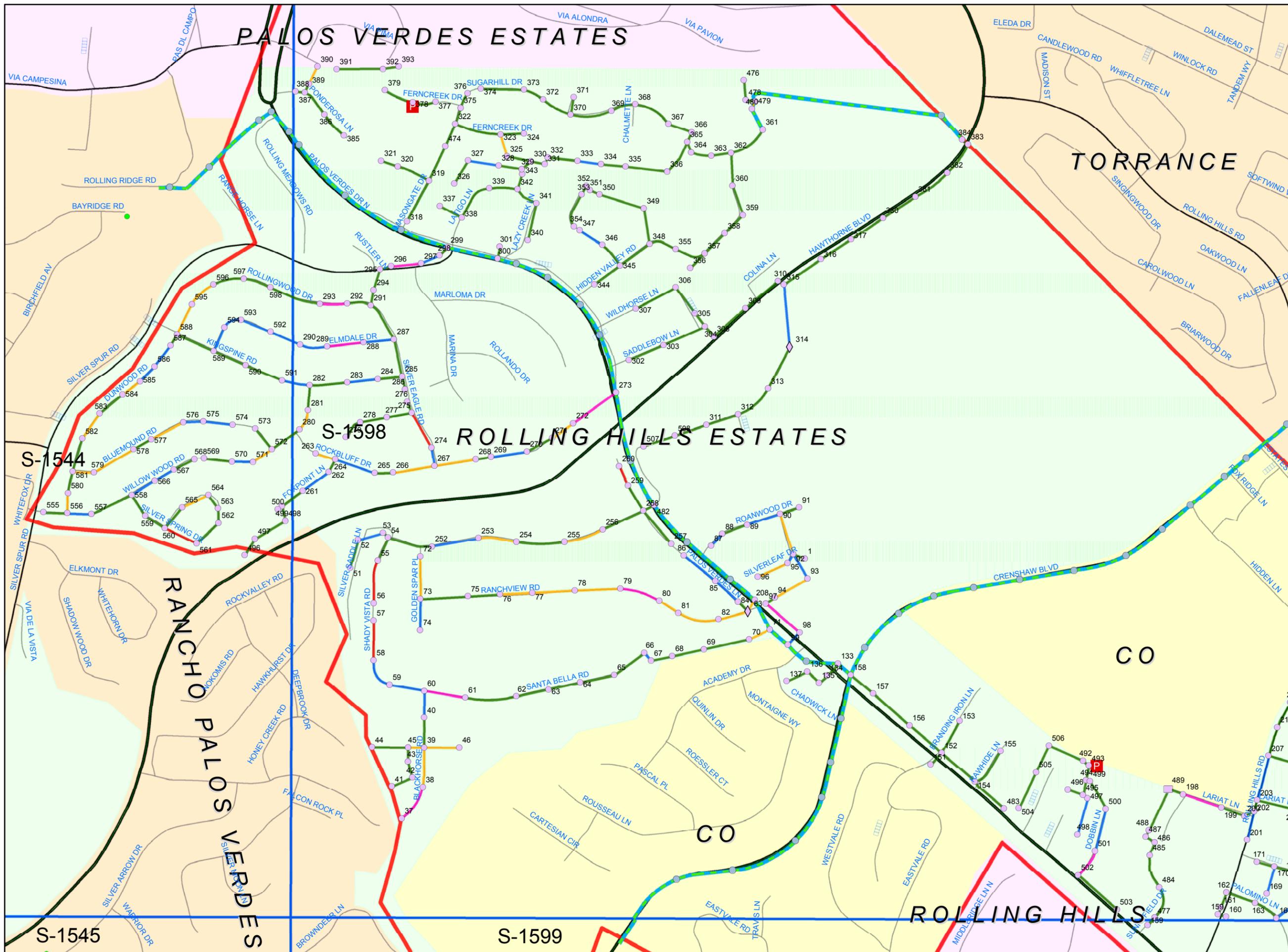
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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MARCH 2011



S-1544

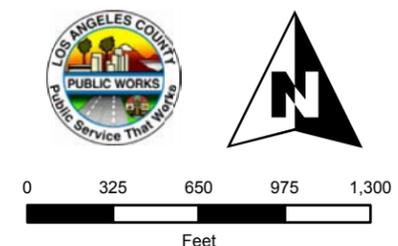
S-1598

S-1599

CO

CO

ROLLING HILLS



Legend

SMD Sanitary Sewers

QSR

- 1: EXCELLENT
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- 4: POOR
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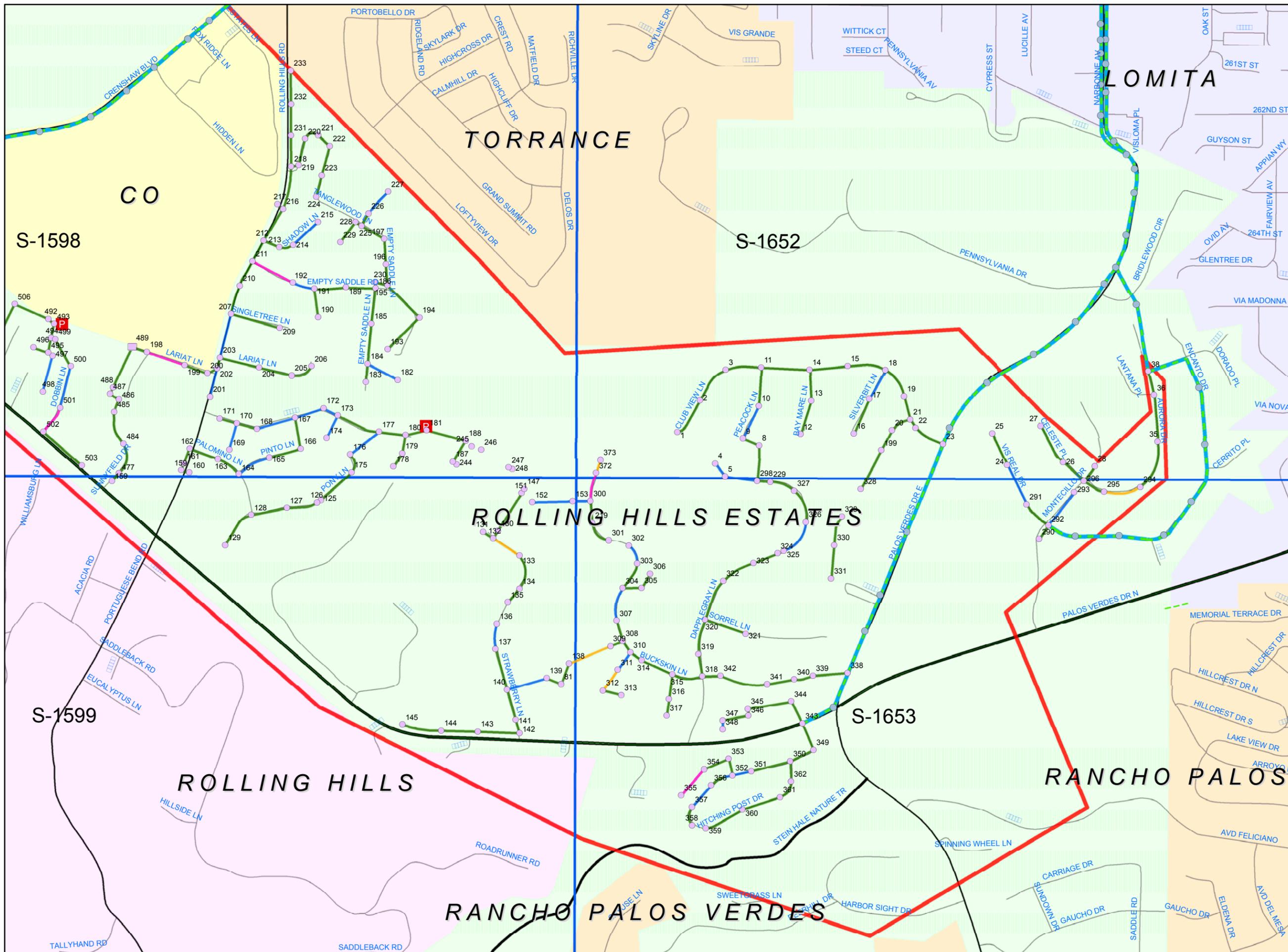
SMD Manholes

- Other
- 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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ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



Inspection report

Date: 20090505	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 906	PSR: 72367
Total Pipe Length: 159.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date: 05.04.2009	Pre-Cleaned: Jetting	Map Grid #: 1598

Street: PALOS VERDES DR NO.	Flow Control: Not Controlled	Start MH: 1598-0260
City: RHE	Year Renewed:	End MH: 1598-0259
Location Code: Light Highway	Tape/Media #: G312-003	pipe length: 237.1 ft

Reason for inspection: Routine Assessment	Dia./Height: Circular 8" x 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0259 1598-0260 1598	Lining Method:
	Category:

Remark: _____

1:600	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0260	00:00:38	454	
	4.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:09	455	
	4.00	Roots Medium Lateral, at 3 o'clock, 15 #, within 8 inch: NO	00:01:22	456	M 3
	5.00	Water Level, 5 #, within 8 inch: NO	00:01:54	457	
	19.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:34	458	
	180.10	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:06:44	459, b	M 1
	181.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:12	461	
	181.30	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:07:27	462	M 1
	194.00	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES	00:08:31	463, b	S 4
	194.00	Roots Fine Barrel, from 7 to 6 o'clock, within 8 inch: NO	00:08:56	465, b	M 2
	194.40	Broken, from 10 to 2 o'clock, within 8 inch: NO	00:09:50	467, b	S 5
	194.40	Deformed, 10 #, within 8 inch: NO	00:10:21	469, b	S 4
	197.00	Broken Soil Visible, from 7 to 5 o'clock, within 8 inch: YES	00:12:02	471, b	S 5
	197.00	Roots Medium Barrel, from 7 to 10 o'clock, 30 #, within 8 inch: NO	00:12:52	473, b	M 4
	197.00	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:13:11	475, b	S 4
200.20	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	00:14:59	478, b	M 1	
237.10	Manhole, within 8 inch: NO, Remarks: 1598-0259	00:16:36	480		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5243	4131	22	12	34	4.4	2	3.09



Inspection report

Date: 20090504	P.O.☐ Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 899	PSR: 72621
Total Pipe Length: 329.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date: 05.01 2009	Pre-Cleaned: Jetting	Map Grid ☐: 1598

Street: SHADY VISTA RD	Flow Control: Not Controlled	Start MH: 1598-0055
City: RHE	Year Renewed	End MH: 1598-0056
Location Code: Light Highway	Tape:Media ☐ G312-002	pipe length: 313.8 ft

Reason for inspection: Routine Assessment	Dia:Height: Circular 8" 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0055 1598-0056 1598	Lining Method:
	Category:

Remark::

1:775	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0055	00:00:35	361	
	5.00	Water Level, 5 ☐, within 8 inch: NO	00:01:12	362	
	5.10	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:01:44	363, b	M 1
	86.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:53	365	
	92.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:27	366	
	140.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:37	367	
	153.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:04	368	
	200.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:13	369	
	233.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:08:27	370, b	M 1
	233.20	Crack Multiple, from 7 to 10 o'clock, within 8 inch: YES	00:08:51	372, b	S 3
	311.40	Obstacle Pipe Material, from 5 to 7 o'clock, 10 ☐, within 8 inch: NO	00:11:18	374, b	M 2
	312.90	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:12:05	376, b	S 3
	312.90	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:12:18	378, b	M 1
	313.80	Tap Break-in Defective, at 3 o'clock, 6", 2, within 8 inch: NO	00:13:25	380, b	M 3
	313.80	Broken Soil Visible, from 7 to 6 o'clock, within 8 inch: NO	00:13:53	382, b	S 5
	313.80	Obstacle Pipe Material, from 4 to 8 o'clock, 25 ☐, within 8 inch: NO	00:14:20	384, b	M 4
	313.80	Abandoned Survey, within 8 inch: NO, Remarks: Completes inspection of e	00:15:14	386	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5132	4131	11	12	23	3.67	2	2.56



Inspection report

Date: 20090507	P.O.☐ Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1613	PSR: 72381
Total Pipe Length: 302.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Cleaned: Jetting	Map Grid ☐ 1598

Street: SILVER EAGLE RD	Flow Control: Not Controlled	Start MH: 1598-0275
City: RHE	Year Renewed:	End MH: 1598-0274
Location Code: Light Highway	Tape:Media ☐ R069	pipe length: 219 ft

Reason for inspection: Routine Assessment	Dia:Height: Circular 8" 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0274 1598-0275 1598	Lining Method:
	Category:

Remark::

1:550	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0275	00:00:29	8465	
	5.00	Water Level, 5 ☐, within 8 inch: NO	00:01:09	8466	
	8.30	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'	00:01:35	8467	
	19.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:03	8468	
	41.80	Crack Circumferential, from 3 to 5 o'clock, within 8 inch: YES	00:02:51	8469, b	S 1
	72.20	S1 Roots Fine Joint, at 9 o'clock, within 8 inch: YES, Start	00:03:53	8471, b	M 1
	75.60	F1 Roots Fine Joint, at 9 o'clock, within 8 inch: YES, End	00:04:21	8473, b	M 1
	77.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:55	8475	
	77.10	Roots Ball Connection, at 9 o'clock, 70 ☐, within 8 inch: NO	00:05:08	8476, b	M 4
	91.80	Roots Fine Joint, from 9 to 3 o'clock, within 8 inch: YES	00:05:57	8478, b	M 1
	119.00	Roots Fine Joint, from 11 to 3 o'clock, within 8 inch: YES	00:07:05	8480, b	M 1
	130.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:47	8482	
	139.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:18	8483	
	219.00	Hole Soil Visible, from 4 to 8 o'clock, within 8 inch: NO, Remarks: Mh Channel	00:10:43	8484, b	S 5
	219.00	Manhole, within 8 inch: NO, Remarks: 1598-0274	00:11:37	8486	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5111	4113	6	7	13	3	1.75	2.17



Inspection report

Date: 20090529	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 1104	PSR: 72622
Total Pipe Length: 299.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date: 05 29 2009	Pre-Cleaned: Jetting	Map Grid #: 1598

Street: SHADY VISTA RD	Flow Control: Not Controlled	Start MH: 1598-0058
City: RHE	Year Renewed:	End MH: 1598-0057
Location Code: Light Highway	Tape/Media #: G312-018	pipe length: 42.4 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8" 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0057 1598-0058 1598	Lining Method:
	Category:

Remark: _____

1:125	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0058	00:00:39	4028	
	5.00	Water Level, 5", within 8 inch: NO	00:01:14	4029	
	5.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:28	4030	
	42.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:01	4031	
	42.40	Roots Medium Lateral, at 9 o'clock, 25", within 8 inch: NO	00:03:13	4032	
	42.40	Broken Soil Visible, from 12 to 7 o'clock, within 8 inch: YES	00:04:01	4033, b	
	42.40	Abandoned Survey, within 8 inch: NO, Remarks: completes inspection of e	00:05:13	4036	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



Inspection report

Date: 20090506	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 925	PSR: 72604
Total Pipe Length: 296.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date: 05.06.2009	Pre-Cleaned: Jetting	Map Grid #: 1598

Street: SHADY VISTA RD	Flow Control: Not Controlled	Start MH: 1598-0037
City: RHE	Year Renewed:	End MH: 1598-0038
Location Code: Light Highway	Tape/Media #: G312-004	pipe length: 293.6 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8" 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0037 1598-0038 1598	Lining Method:
	Category:

Remark: _____

1:725	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0037	00:00:40	895	
	0.00 S1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:01:09	896, b	M 1
	2.00	Broken, from 4 to 6 o'clock, within 8 inch: YES	00:01:59	898, b	S 4
	2.00	Crack Circumferential, from 4 to 5 o'clock, within 8 inch: YES	00:02:20	900, b	S 1
	3.00	Roots Ball Lateral, at 3 o'clock, 55 #, within 8 inch: NO	00:03:01	902	M 4
	5.00	Water Level, 5 #, within 8 inch: NO	00:03:33	903	
	32.90	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:04:28	904	
	32.90	Roots Fine Connection, from 3 to 6 o'clock, within 8 inch: NO	00:04:45	905, b	M 1
	125.50 F1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:07:03	907	M 1
	133.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:28	908	
	146.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:02	909	
	146.80	Roots Medium Lateral, at 9 o'clock, 35 #, within 8 inch: NO	00:08:20	910	M 3
	193.60	Broken, from 7 to 9 o'clock, within 8 inch: YES	00:09:34	911, b	S 4
	193.60	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	00:09:46	913, b	M 1
	291.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:12:05	915	
	291.60	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:12:16	916	M 1
	292.10	Roots Fine Barrel, from 4 to 6 o'clock, within 8 inch: NO	00:13:02	917, b	M 2
	293.60	Manhole, within 8 inch: NO, Remarks: 1598-0038	00:13:49	919	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4211	4131	9	43	52	3	1.16	1.3



Inspection report

Date: 20090505	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 914	PSR: 72643
Total Pipe Length: 318.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date: 05.05.2009	Pre-Cleaned: Jetting	Map Grid #: 1598

Street: RANCHVIEW RD	Flow Control: Not Controlled	Start MH: 1598-0079
City: RHE	Year Renewed:	End MH: 1598-0080
Location Code: Light Highway	Tape/Media #: G312-003	pipe length: 261.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8" 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0079 1598-0080 1598	Lining Method:
	Category:

Remark::

1:264	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0079	00:00:58	605	
	3.50	Crack Circumferential, from 7 to 5 o'clock, within 8 inch: YES	00:01:32	606, b	S 1
	5.00	Water Level, 10", within 8 inch: NO	00:02:16	608	
	6.20	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:02:59	609, b	S 3
	6.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:03:12	611, b	M 1
	9.00	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:03:51	613, b	S 3
	9.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:04:25	615, b	M 1
	10.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:49	617	
	10.10	Roots Fine Connection, from 6 to 9 o'clock, within 8 inch: NO	00:05:03	618, b	M 1
	20.80	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:06:24	620, b	M 1
	33.10	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:07:44	623, b	S 1
	36.10	Roots Fine Joint, from 3 to 8 o'clock, within 8 inch: YES	00:09:44	625, b	M 1
	49.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:23	627	
	60.40	Crack Circumferential, from 10 to 3 o'clock, within 8 inch: YES	00:11:47	628, b	S 1
	60.40	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:12:03	630, b	M 1
	69.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:13:03	632	M 1
	69.40	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:13:38	633	S 4
	69.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:14:23	634, b	M 1
	70.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:12	636	
	75.20	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:16:04	637, b	S 3
	75.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:16:21	639, b	M 1
	84.60	Roots Fine Joint, from 7 to 10 o'clock, within 8 inch: YES	00:17:08	641, b	M 1
	87.50	Fracture Circumferential, from 9 to 11 o'clock, within 8 inch: YES	00:18:39	644, b	S 2
	87.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:19:06	646, b	M 1



Inspection report

Date: 20090505	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 914	PSR: 72643
Total Pipe Length: 318.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date: 05.05.2009	Pre-Cleaned: Jetting	Map Grid #: 1598

1:264	position	observation	MPEG	photo	grade
	110.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:20:02	648	
	114.90 S1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:20:50	649, b	S 3
	114.90 S2	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:21:07	651, b	M 1
	183.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:24:23	653	
	194.10 F2	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:24:47	654	M 1
	205.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:25:30	655	
	252.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:27:41	656, b	M 1
	256.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:28:10	658	
	258.20 F1	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:28:27	659	S 3
	258.20	Joint Offset Medium, within 8 inch: YES	00:28:53	660, b	S 1
	261.70	Roots Fine Barrel, from 7 to 5 o'clock, within 8 inch: NO	00:29:55	662, b	M 2
	261.70	Manhole, within 8 inch: NO, Remarks: 1598-0080	00:30:15	664	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
413H	211F	127	34	161	2.82	1.03	2.06



Inspection report

Date: 20090527	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1796	PSR: 72526
Total Pipe Length: 349.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1598

Street: EMPTY SADDLE DR	Flow Control: Not Controlled	Start MH: 1598-0192
City: RHE	Year Renewed:	End MH: 1598-0211
Location Code: Light Highway	Tape/Media #: R082	pipe length: 324.2 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8" 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0192 1598-0211 1598	Lining Method:
	Category:

Remark: _____

1:800	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0192	00:00:29	11501	
	8.00	Water Level, 10", within 8 inch: NO	00:00:53	11502	
	12.40	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 5'	00:01:21	11503	
	29.50	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:02:03	11504	
	32.10	Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO	00:02:28	11505	
	38.30	Crack Circumferential, from 7 to 10 o'clock, within 8 inch: YES	00:02:55	11506, b	S 1
	60.30	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:03:58	11508	
	82.00	Crack Circumferential, from 7 to 9 o'clock, within 8 inch: YES	00:04:55	11509, b	S 1
	87.40	Fracture Circumferential, from 5 to 7 o'clock, within 8 inch: NO	00:05:45	11511, b	S 2
	91.90	Crack Multiple, from 1 to 4 o'clock, within 8 inch: YES	00:06:31	11513, b	S 3
	97.00	Fracture Circumferential, from 7 to 11 o'clock, within 8 inch: YES	00:07:12	11515, b	S 2
	102.20	Fracture Circumferential, from 9 to 2 o'clock, within 8 inch: YES	00:08:00	11517, b	S 2
	112.40	Fracture Multiple, from 2 to 9 o'clock, within 8 inch: YES	00:08:55	11519, b	S 4
	117.30	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:09:30	11521, b	S 2
	128.00	Fracture Longitudinal, at 3 o'clock, within 8 inch: YES	00:10:13	11523, b	S 3
	132.60	Fracture Longitudinal, at 9 o'clock, within 8 inch: YES	00:10:50	11525, b	S 3
	250.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:19	11527	
	307.60	Crack Circumferential, from 2 to 4 o'clock, within 8 inch: YES	00:16:15	11528, b	S 1
	307.60	Crack Circumferential, from 7 to 9 o'clock, within 8 inch: YES	00:16:29	11530, b	S 1
	322.70	Roots Fine Joint, from 9 to 2 o'clock, within 8 inch: YES	00:17:27	11532, b	M 1
324.20	Manhole, within 8 inch: NO, Remarks: 1598-0211	00:18:07	11534		

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4133	1100	25	1	26	2.08	1	2



Inspection report

Date: 20090506	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1602	PSR: 72399
Total Pipe Length: 215.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1598

Street: ROLLINGWOOD DR	Flow Control: Not Controlled	Start MH: 1598-0293
City: RHE	Year Renewed:	End MH: 1598-0292
Location Code: Light Highway	Tape Media # R068	pipe length: 354 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8" 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0292 1598-0293 1598	Lining Method:
	Category:

Remark::

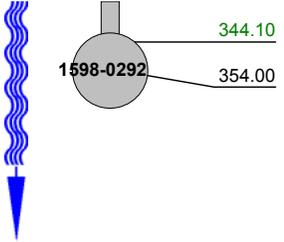
1:792	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0293	00:00:42	8249	
	7.60	Water Level, 10 #, within 8 inch: NO	00:01:32	8250	
	10.70	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'	00:01:56	8251	
	26.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:31	8252	
	26.60	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:02:44	8253, b	M 1
	41.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:45	8255	
	44.50	Crack Circumferential, from 12 to 4 o'clock, within 8 inch: YES	00:04:25	8256, b	S 1
	49.70	Crack Circumferential, from 11 to 2 o'clock, within 8 inch: YES	00:05:19	8258, b	S 1
	53.90	Crack Circumferential, from 5 to 9 o'clock, within 8 inch: YES	00:05:53	8260, b	S 1
	58.20	Fracture Longitudinal, at 7 o'clock, within 8 inch: YES	00:06:29	8262, b	S 3
	107.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:54	8264	
	125.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:38	8265	
	125.30	Roots Medium Connection, at 9 o'clock, 40 #, within 8 inch: NO	00:08:56	8266, b	M 3
	151.10	Fracture Multiple, from 12 to 8 o'clock, within 8 inch: YES	00:10:26	8268, b	S 4
	172.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:28	8270	
	188.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:10	8271	
	188.30	Roots Ball Lateral, at 9 o'clock, 80 #, within 8 inch: NO	00:12:27	8272, b	M 4
	205.70	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:13:24	8274	
	205.70	Roots Ball Connection, at 9 o'clock, 85 #, within 8 inch: NO	00:13:38	8275, b	M 4
	275.80	Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO	00:15:45	8277	
	285.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:26	8278	
	285.60	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:16:37	8279, b	M 1
	325.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:08	8281	
	325.40	Roots Fine Connection, at 3 o'clock, within 8 inch: NO	00:18:24	8282, b	M 1



Inspection report

Date: 20090506	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1602	PSR: 72399
Total Pipe Length: 215.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1598

1:792	position	observation	MPEG	photo	grade
	344.10	Roots Fine Joint, from 5 to 7 o'clock, within 8 inch: YES	00:19:21	8284, b	M 1
	354.00	Manhole, within 8 inch: NO, Remarks: 1598-0292	00:20:11	8286	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	4231	10	15	25	2	2.14	2.08



Inspection report

Date: 20090508	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1631	PSR: 72380
Total Pipe Length: 331.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1598

1:627	position	observation	MPEG	photo	grade
	<u>270.60</u> S1	Water Level Sag, 30' □, within 8 inch: NO, Start	00:23:54	8983, b	M 2
	<u>276.00</u>	Tap Factory Capped, at 12 o'clock, 6", within 8 inch: NO	00:24:38	8985	
	<u>281.40</u>	Fracture Circumferential, from 2 to 4 o'clock, within 8 inch: YES	00:25:32	8986, b	S 2
	<u>286.20</u>	Fracture Longitudinal, at 2 o'clock, within 8 inch: YES	00:26:24	8988, b	S 3
	<u>297.70</u>	Repair Patch, at 12 o'clock, within 8 inch: NO, Remarks: Cement Patch	00:27:42	8990, b	
	<u>298.90</u> F1	Water Level Sag, 30' □, within 8 inch: NO, End	00:28:17	8992, b	M 2
	<u>298.90</u>	Water Level, 10' □, within 8 inch: NO	00:28:31	8994	
	<u>326.70</u>	Crack Longitudinal, at 10 o'clock, within 8 inch: YES	00:30:03	8995, b	S 2
	<u>329.80</u>	Fracture Multiple, from 9 to 4 o'clock, within 8 inch: YES	00:31:00	8997, b	S 4
	<u>331.00</u>	Manhole, within 8 inch: NO, Remarks: 1598-0273	00:32:00	8999	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	4227	16	29	45	2	1.81	1.88



Inspection report

Date: 20090505	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1597	PSR: 72395
Total Pipe Length: 276.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1598

Street: ELMDALE DR	Flow Control: Not Controlled	Start MH: 1598-0289
City: RHE	Year Renewed:	End MH: 1598-0288
Location Code: Light Highway	Tape Media # R067	pipe length: 354.9 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8" 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0288 1598-0289 1598	Lining Method:
	Category:

Remark::

1:561	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1598-0289	00:00:26	8121	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:36	8122, b	M 1
	3.80	Roots Fine Joint, from 10 to 12 o'clock, within 8 inch: YES	00:01:04	8124, b	M 1
	7.20	Water Level, 5", within 8 inch: NO	00:01:28	8126	
	10.50	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 3'	00:01:49	8127	
	11.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:02:06	8128	
	28.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:44	8129	
	49.30	Roots Fine Joint, from 11 to 2 o'clock, within 8 inch: YES	00:03:35	8130, b	M 1
	80.20	Crack Circumferential, from 4 to 12 o'clock, within 8 inch: YES	00:05:14	8132, b	S 1
	83.70	Roots Fine Joint, at 1 o'clock, within 8 inch: YES	00:05:44	8134, b	M 1
	88.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:17	8136	
	97.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:47	8137	
	102.20	Roots Fine Joint, from 4 to 8 o'clock, within 8 inch: YES	00:07:14	8138, b	M 1
	149.80	Roots Fine Joint, from 11 to 4 o'clock, within 8 inch: YES	00:08:36	8140, b	M 1
	176.60	Crack Circumferential, from 5 to 9 o'clock, within 8 inch: YES	00:09:42	8142, b	S 1
	180.00	Crack Circumferential, from 9 to 12 o'clock, within 8 inch: YES	00:10:19	8144, b	S 1
	186.50	Crack Longitudinal, at 12 o'clock, within 8 inch: YES	00:10:55	8146, b	S 2
	191.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:28	8148	
	193.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:55	8149	
	218.70	Crack Circumferential, from 10 to 3 o'clock, within 8 inch: YES	00:12:53	8150, b	S 1
	225.60	Crack Longitudinal, at 1 o'clock, within 8 inch: YES	00:13:28	8152, b	S 2
	228.70	Crack Circumferential, from 1 to 8 o'clock, within 8 inch: YES	00:14:06	8154, b	S 1



Inspection report

Date: 20090505	P.O. #: Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section number: 1597	PSR: 72395
Total Pipe Length: 276.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Cleaned: Jetting	Map Grid #: 1598

1:561	position	observation	MPEG	photo	grade
	240.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:44	8156	
	242.10	Crack Circumferential, from 1 to 4 o'clock, within 8 inch: YES	00:15:06	8157, b	S 1
	245.40	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:15:35	8159, b	S 2
	246.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:16:06	8161	
	251.30	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:16:29	8162, b	S 2
	254.20	Fracture Multiple, from 9 to 3 o'clock, within 8 inch: YES	00:17:06	8164, b	S 4
	268.00	Fracture Circumferential, from 1 to 4 o'clock, within 8 inch: YES	00:17:52	8166, b	S 2
	278.20	Fracture Circumferential, from 1 to 4 o'clock, within 8 inch: YES	00:18:36	8168, b	S 2
	294.80	Crack Circumferential, from 11 to 4 o'clock, within 8 inch: YES	00:19:29	8170, b	S 1
	308.40	Roots Fine Joint, at 4 o'clock, within 8 inch: YES	00:20:11	8172, b	M 1
	308.40	Crack Longitudinal, at 4 o'clock, within 8 inch: NO	00:20:20	8174, b	S 2
	333.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:21:15	8176	
	338.10	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:21:38	8177, b	M 1
	352.30	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:22:34	8179, b	S 2
	354.90	Vermin Cockroach, within 8 inch: NO	00:23:15	8181, b	M 1
	354.90	Manhole, within 8 inch: NO, Remarks: 1598-0288	00:23:37	8183	

