



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 5, 2009

IN REPLY PLEASE
REFER TO FILE:
IN REPLY PLEASE

REFER TO FILE: SM-1

Mr Jim Bell, Director of Public Works
City of Rancho Palos Verdes
30940 Hawthorne Boulevard
Rancho Palos Verdes, CA 90275

Attention Mr Rick James

Dear Mr Bell

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0607D

This letter is to inform you that as part of the Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District has completed the closed-circuit television (CCTV) inspection of 126,735 feet or approximately 17.3 percent of the City of Rancho Palos Verdes' 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)
- Quick Structural Rating Report Priority List and Quick Structural Rating Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

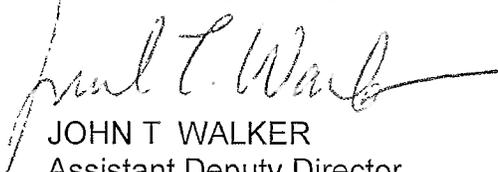
Mr Jim Bell
August 5, 2009
Page 2

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

If you have any questions regarding this report or the Condition Assessment Program, please contact Mr Robert Swartz at (626) 300-3367 or rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



JOHN T WALKER
Assistant Deputy Director
Sewer Maintenance Division

PK gy
1731

Enc

bc: Programs Development (PILKER)

bc: JW, KL, RS, FV, File (Project Y0TV0607D), SPINDLE

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

PROJECT NAME:	Y0TV0607D	PROJECT MGR:	Kari Eskridge
PROJECT DATE:	5/16/07-8/20/07	CONTACT NO:	(626) 300-3390
SUP. DISTRICT(s):	4	MAP PAGE(S):	1490, 1491, 1544, 1545
Report By:	Phyo Kyaw	Report Date:	07/29/09

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 126,735 feet or approximately 17.3 percent of the City of Rancho Palos Verdes' 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 Y0TV0607D included sewer lines located in both the Cities of Palos Verdes Estates and Rancho Palos Verdes. 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 94.2 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 5.8 percent of the inspected pipe segments within the City of Rancho Palos Verdes area had a PACP maintenance grade of 4 or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our routine cleaning schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2). Also included is a color-coded map showing the quick maintenance rating for each pipe segment.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	75,032	59.2	364
2: Good	22,560	17.8	94
3: Fair	21,737	17.2	90
4: Poor	7,131	5.6	31
5: Immediate Attention	275	0.2	2
TOTAL	126,735	100.0	581

STRUCTURAL REPORT

Our inspection revealed that approximately 93.6 percent of the inspected pipe segments within the City of Rancho Palos Verdes were free of severe structural defects. However, the remaining 6.4 percent of the inspected pipe segments had a PACP structural grade of 4 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 34 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 34 segments are included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	96,175	75.9	454
2: Good	17,848	14.1	75
3: Fair	4,523	3.6	18
4: Poor	2,853	2.2	10
5: Immediate Attention	5,336	4.2	24
TOTAL	126,735	100.0	581

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 Rancho Palos Verdes according to the following schedule.

FISCAL YEAR	PROJECT NAME	LENGTH (FT)	PERCENTAGE OF SYSTEM	STATUS
2005-2006	Y0TV0506F	76,591	10.5	COMPLETE
2006-2007	Y0TV0607D	126,735	17.3	COMPLETE
2008-2009	Y0TV0809C	31,410	4.3	IN PROGRESS
2009-2010		266,712	36.5	
2011-2012		100,727	13.8	
2012-2013		124,667	17.0	
2013-2014		4,594	0.6	
TOTAL		731,436	100.0	

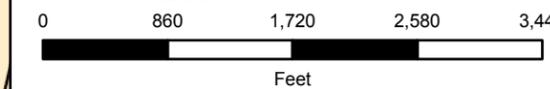
ENCLOSURE 1:

Project Overview Map

CCTV PROJECT

Y0TV0607D

Supervisorial District 4
Cities of Rancho Palos Verdes
& Palos Verdes Estates

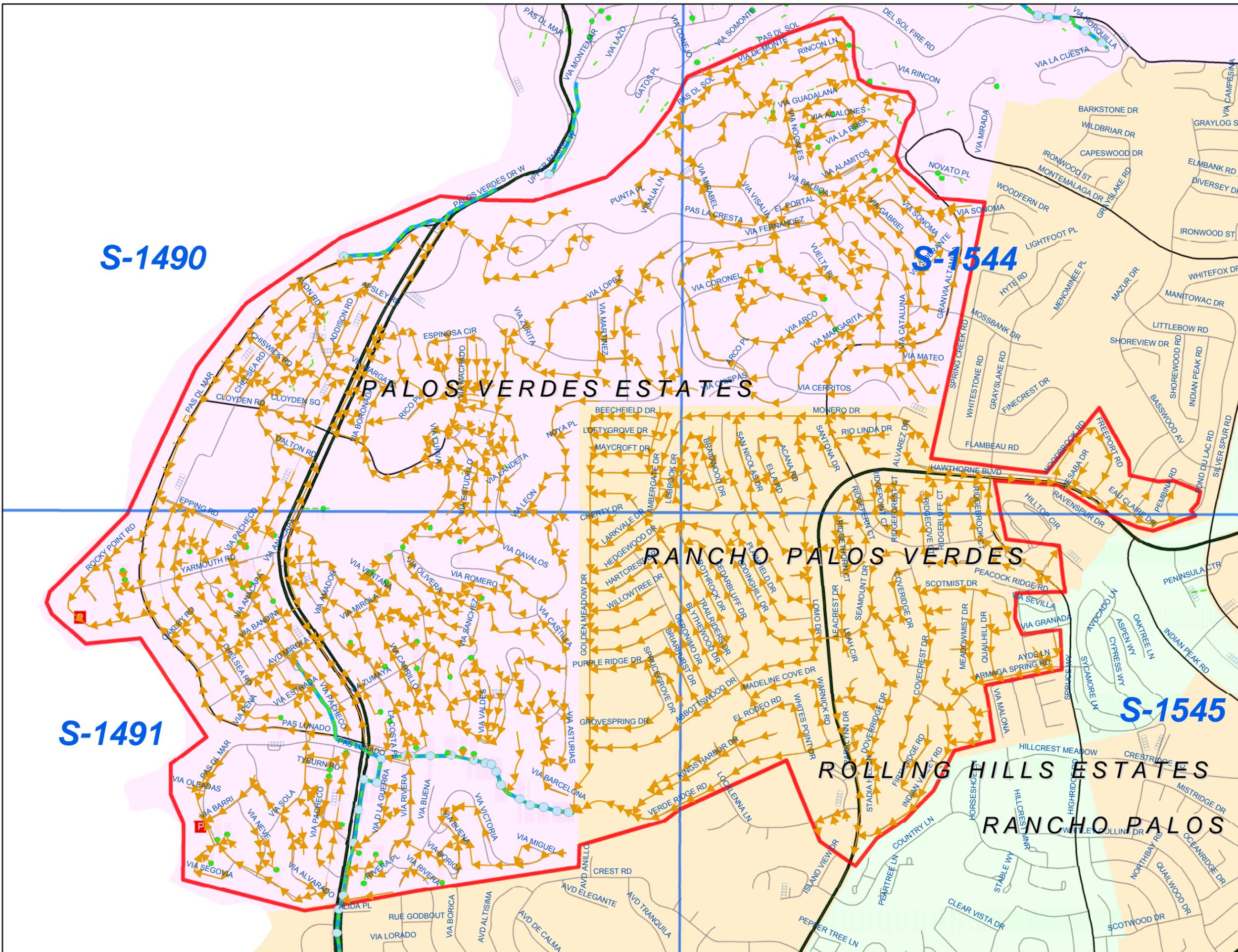


S-1490

S-1544

S-1545

S-1491



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

● Trunk Mh

● Non SMD Maintained MH

□ Parcel Boundary

□ 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.

JULY 2009

0607D-OVERVIEW.mxd

ENCLOSURE 2:

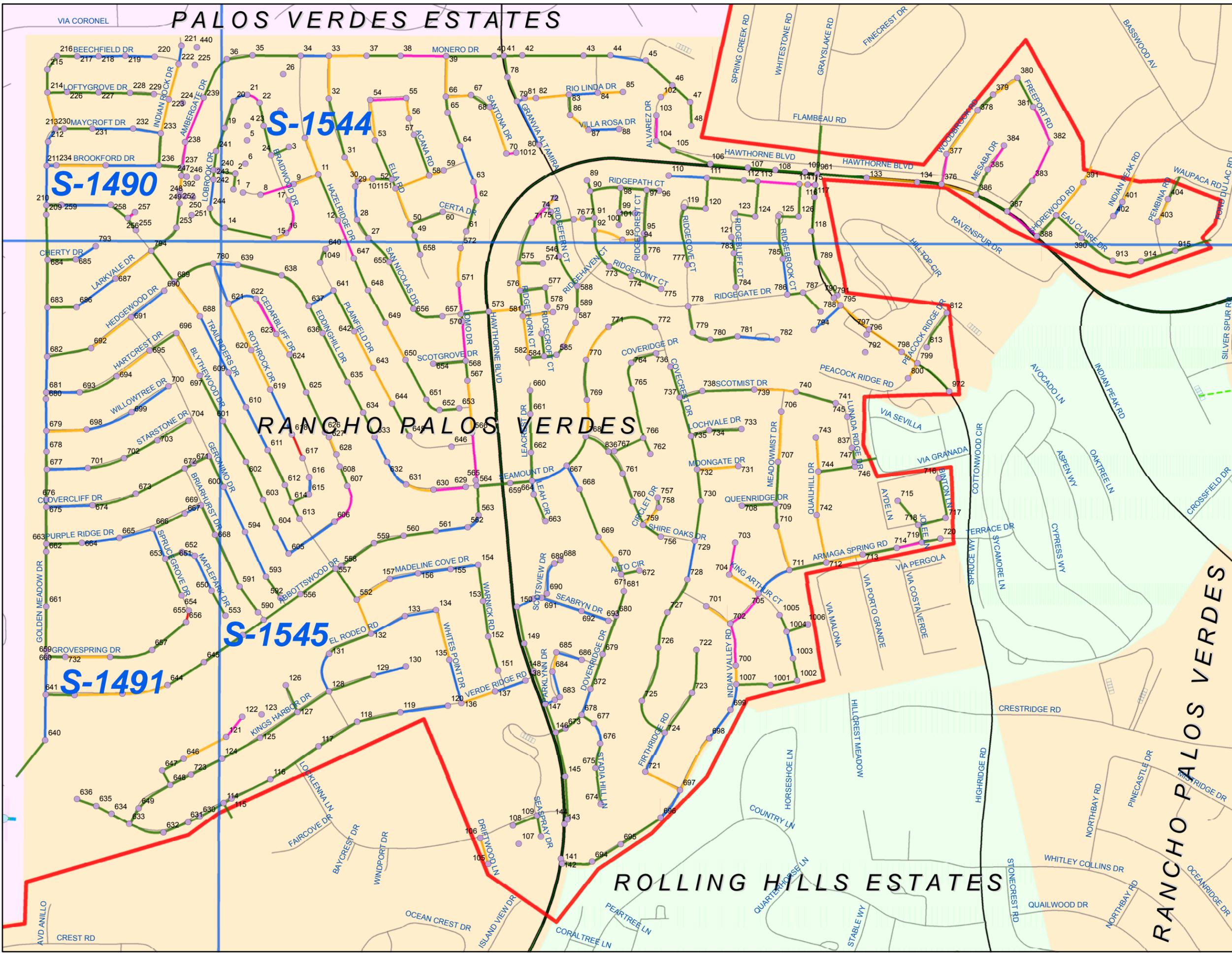
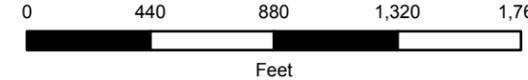
- Quick Maintenance Rating Report
Priority List
- Quick Maintenance Rating Map

ENCLOSURE 2
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST
 CIYT OF RANCHO PALOS VERDES (Y0TV0607D)
 as of 07/24/07

Item No.	QMR	Start MH	End MH	Street	Observation: Location	Corrective Action Taken
1	5143	1545-0617	1545-0618	ROTHROCK DR	Roots	Rodder (Completed 1/26/09)
2	5141	1491-0656	1491-0655	SPRUCEGROVE DR	Roots; Deposits	Rodder; Hydrojet (Completed 1/27/09)
3	431B	1545-0571	1545-0572	LOMO DR	Roots	Rodder (Completed 1/26/09)
4	4236	1545-0703	1545-0704	KING ARTHUR CT	Roots	Rodder (Completed 1/26/09)
5	4236	1545-0702	1545-0700	INDIAN VALLEY RD	Roots	Rodder (Completed 1/26/09)
6	4232	1544-0084	1544-0085	RIO LINDA DR	Roots	Rodder (Completed 1/26/09)
7	4232	1545-0566	1545-0565	LOMO DR	Roots	Rodder (Completed 1/26/09)
8	4231	1544-0009	1544-0008	BIRCHMAN DR	Roots	Rodder (Completed 1/23/09)
9	4231	1490-0239	1490-0238	AMBERGATE DR	Roots	Rodder (Completed 1/27/09)
10	4200	1545-0623	1545-0622	CEDARBLUFF DR	Roots	Rodder (Completed 1/23/09)
11	4133	1544-0381	1544-0382	FREEPORT RD	Roots	Rodder (Completed 1/23/09)
12	4133	1544-0387	1544-0388	HAWTHORNE BVLD	Roots	Rodder (Completed 1/27/09)
13	4132	1545-0637A	1545-0637B	EASEMENT	Roots; Roots inside End MH	Rodder; Clean MH (Completed 1/27/09)
14	4132	1544-0382	1544-0383	FREEPORT RD	Roots	Rodder (Completed 1/23/09)
15	4131	1545-0121	1545-0122	EASEMENT by KINGS HARBOR and ROCK PARK	Roots	Rodder (Completed 2/10/09)
16	4131	1544-0055	1544-0054	ELLA RD	Roots	Rodder (Completed 1/23/09)
17	4131	1545-0629	1545-0630	EDINGHILL DR	Roots	Rodder (Completed 1/26/09)
18	4131	1545-0571	1545-0570	LOMO DR	Roots	Rodder (Completed 1/26/09)
19	4131	1544-0404	1544-0403	PEMBINA RD	Roots	Rodder (Completed 1/23/09)
20	4131	1544-0377	1544-0376	WOODBROOK RD	Roots	Rodder (Completed 1/23/09)
21	4131	1544-0384	1544-0385	MESABA DR	Roots; Hole at trough of End MH	Rodder (Completed 1/23/09) Repair MH base (Completed 3/25/09)
22	4124	1491-0655	1491-0656	SPRUCEGROVE DR	Deposits; Roots	Rodder; Hydrojet (Completed 1/27/09)
23	4122	1545-0647	1544-0012	HAZELRIDGE DR	Intruding Lateral Lining: 156'; Roots	Millsaw (Completed 5/13/09) Hydrojet (Completed 2/10/09)
24	4121	1544-0113	1544-0114	ALLEY by HAWTHORNE and HIGHRIDGE	Roots	Rodder (Completed 2/10/09)
25	411A	1545-0569	1545-0568	LOMO DR	Roots in lateral; Obstacle: 241'	Remove obstacle (Completed 1/26/09)
26	4118	1544-0062	1544-0063	LOMO DR	Roots	Rodder (Completed 1/23/09)
27	4118	1544-0103	1544-0104	ALVAREZ DR	Roots; Hole at trough of End MH	Rodder (Completed 1/23/09) Repair MH base (Completed 3/25/09)
28	4117	1490-0256	1490-0257	CHERTY DR	Roots in lateral; Deposit rocks inside End MH	Remove deposit rocks (Completed 1/27/09)
29	4112	1545-0630	1545-0629	EDINGHILL DR	Roots	Rodder (Completed 1/27/09)
30	4111	1545-0719	1545-0714	ARMARGA SPRING RD	Roots; Deposits; Hole at trough of End MH	Rodder (Completed 1/26/09) Repair MH base (Completed 3/25/09)
31	4100	1545-0622	1545-0623	CEDARBLUFF DR	Roots	Rodder (Completed 1/26/09)
32	4100	1544-0072	1544-0071	RIDGETHORNE CT	Roots	Rodder (Completed 1/27/09)
33	4100	1544-0115	1544-0116	HIGHRIDGE RD	Camera underwater	Hydrojet (Completed 1/27/09)

ENCLOSURE 2
 CCTV PROJECT
Y0TV0607D
 Supervisorial District 4
 City of Rancho Palos Verdes

QUICK
 MAINTENANCE
 RATING
 (QMR)



- Legend**
- SMD Sanitary Sewers**
- QMR**
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION
- 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
 - Trunk Mh
 - Non SMD Maintained MH
 - Parcel Boundary
 - 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.

ENCLOSURE 3:

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

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF RANCHO PALOS VERDES (Y0TV0607D)

as of 07/24/07

Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5443	1545-0730	1545-0729	COVERCREST DR	Broken and deformed: 174'; multiple fractures: 68'	Lining: MH to MH	331
2	5442	1544-0081	1544-0079	GRANVIA ALTAMIRA	Broken: 14', 21'; fractures	Lining: MH to MH	59
3	5243	1491-0646	1545-0121	EASEMENT by KINGS HARBOR and ROCK PARK	Fracture: 223'; broken and multiple fractures: 229'; multiple fractures: 313'; joint offset (large): 159'	Lining: MH to MH	350
4	5223	1545-0580	1545-0573	EASEMENT by RIDGEFALLS and RIDGETHORN	Broken: 188'; Fracture: 177', 197'	Lining: MH to MH	201
5	5223	1544-0384	1544-0385	MESABA DR	Hole: End MH 1544-0385	CSMD will repair MH base.	
6	5200	1490-0233	1490-0232	MAYCROFT DR	Hole at lateral: 219'; hole: End MH 1490-0232	Structural integrity in tact. No action needed. CSMD will repair MH base.	-
7	5200	1491-0687	1491-0686	LARKVALE DR	Hole: End MH 1491-0686	CSMD will repair MH base.	
8	5200	1544-0103	1544-0104	ALVAREZ DR	Hole: End MH 1544-0104	CSMD will repair MH base.	
9	5142	1545-0682	1545-0147	EASEMENT by PARKLNN DR	Broken: 15'; fracture: 12'	Emergency Repair (Lining MH to MH): completed June 2009	
10	5141	1490-0212	1490-0211	GOLDEN MEADOW DR	Hole: End MH 1490-0211	CSMD will repair MH base.	
11	5141	1491-0693	1491-0681	HARTCREST DR	Broken: 162'	Lining: MH to MH	242
12	5141	1544-0111	1544-0112	EASEMENT by RIDGEBLUFF	Hole: 36'	Structural integrity in tact. No action needed.	-
13	5122	1544-0070	1544-1012	EASEMENT by SANTONA DR	Broken: 8', 38'	Emergency Repair (Lining MH to MH): completed June 2009	
14	5121	1545-0575	1545-0576	RIDGETHORNE CT	Broken: 172'; multiple fracture: 99'	Lining: MH to MH	200
15	5121	1545-0799	1545-0800	HIGHRIDGE RD	Broken: 129'	Lining: MH to MH	160
16	5100	1490-0213	1490-0230	GOLDEN MEADOW DR	Hole: End MH 1490-0213	CSMD will repair MH base.	
17	5100	1490-0230	1490-0231	MAYCROFT DR	Hole: End MH 1490-0230	CSMD will repair MH base.	
18	5100	1490-0232	1490-0231	MAYCROFT DR	Hole: End MH 1490-0231	CSMD will repair MH base.	
19	5100	1545-0635	1545-0636	EDDINGHILL DR	Hole: End MH 1545-0636	CSMD will repair MH base.	
20	5100	1544-0028	1544-0029	SAN NICOLAS DR	Hole: End MH 1544-0029	CSMD will repair MH base.	
21	5100	1545-0704	1545-0705	KING ARTHUR CT	Broken with void visible: 41'	Lining: MH to MH	253
22	5100	1545-0714	1545-0713	ARMARGA SPRING RD	Hole: End MH 1545-0713	CSMD will repair MH base.	
23	5100	1545-0705	1545-0702	ARMARGA SPRING RD	Broken: 187'	Lining: MH to MH	315
24	5100	1545-0719	1545-0714	ARMARGA SPRING RD	Roots; Deposits; Hole: End MH 1545-0714	Rodder; CSMD will repair MH base.	

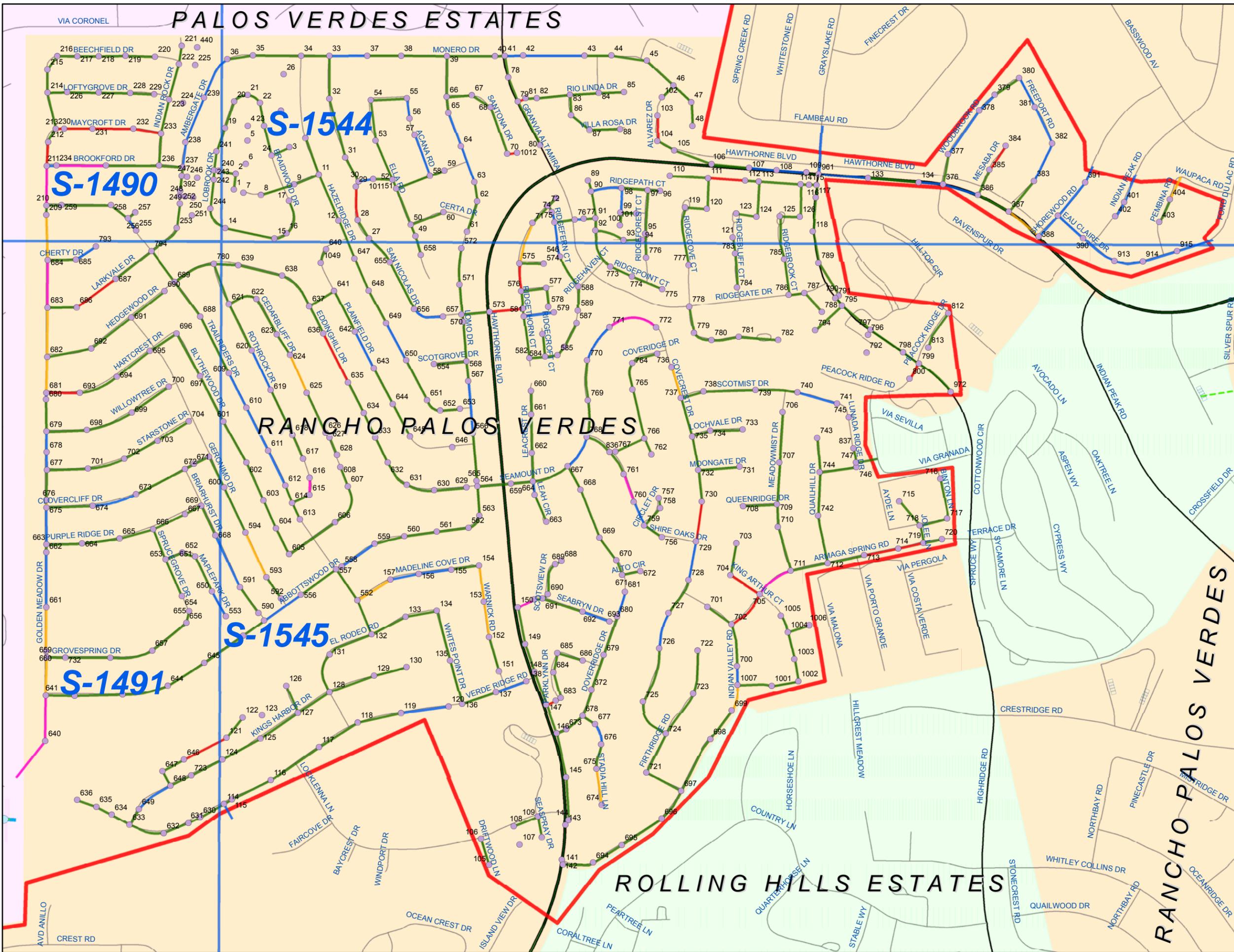
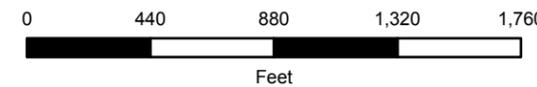
ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF RANCHO PALOS VERDES (Y0TV0607D)

as of 07/24/07

25	4231	1491-0684	1491-0683	GOLDEN MEADOW DR	Fractures: 195', 273'	Lining: MH to MH	351
26	4221	1545-0150	1545-0687	EASEMENT by HAWTHORNE and SEABRYN	Broken and multiple fractures: 40'	Lining: MH to MH	76
27	4132	1490-0211	1490-0210	GOLDEN MEADOW DR	Broken: 146'; multiple cracks	Lining: MH to MH	295
28	4132	1491-0640	1491-0639	GOLDEN MEADOW DR	Broken: 101', fractures: 99', 158'	Structural integrity in tact. No action needed.	-
29	4131	1491-0641	1491-0640	GOLDEN MEADOW DR	Hole: End MH 1491-0640	CSMD will repair MH base.	
30	412H	1490-0235	1490-0234	BROOKFORD DR	Fracture: 123', 146', 173'	Structural integrity in tact. No action needed.	-
31	4100	1545-0616	1545-0615	ROTHROCK DR	Multiple fractures: 55'	Lining: MH to MH	230
32	4100	1545-0760	1545-0761	SHIRE OAKS DR	Multiple fractures: 40'	Structural integrity in tact. No action needed.	-
33	4100	1545-0772	1545-0771	SEAMOUNT DR	Broken and multiple fractures: 265'	Lining: MH to MH	340
34	4100	1545-0711	1545-0705	ARMARGA SPRING RD	Broken: 26'	Structural integrity intact. No action needed.	-

ENCLOSURE 3
 CCTV PROJECT
Y0TV0607D
 Supervisorial District 4
 City of Rancho Palos Verdes

QUICK
 STRUCTURAL
 RATING
 (QSR)



- Legend**
- SMD Sanitary Sewers**
- QSR**
- 1: EXCELLENT
 - 2: GOOD
 - 3: FAIR
 - 4: POOR
 - 5: IMMEDIATE ATTENTION
- SMD Manholes**
- Other
- Manhole Type**
- Standard
 - DROP
 - Shallow
 - Trap
 - Siphon
 - SMD Pump Satations
 - SMD Treatment Plants
- Maintained by Others:**
- Trunk Sewerlines
 - Non SMD Sanitary Sewers
 - Trunk Mh
 - Non SMD Maintained MH
 - Parcel Boundary
 - 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.

ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/20/2007	P.O.☐ YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 820	PSR: 75652
Total Pipe Length: 303.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS VERDES	Clean Date: 07/19/2007	Pre-Cleaned: Jetting	Map Grid ☐ 1545

Street: COVERCREST DR	Flow Control: Not Controlled	Start MH: 1545-0730
City: RPV	Year Renewed	End MH: 1545-0729
Location Code: Light Highway	Tape/Media ☐ G312-041	pipe length: 330.9 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0730 1545-0729 1545	Lining Method:
	Category:

Remark::

1:825	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:44	8040	
	<u>0.00</u>	Water Level, 10 ☐, within 8 inch: NO	00:01:00	8041	M 2
	15.70	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO	00:01:37	8042	
	42.70 S1	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, Start	00:02:25	8043	
	<u>68.60</u>	Fracture Multiple, from 1 to 5 o'clock, within 8 inch: YES	00:03:41	8044	S 4
	74.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:23	8045	
	80.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:04:48	8046	
	138.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:34	8047	
	161.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:23	8048	
	<u>174.40</u> S2	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, Start	00:08:24	8049	S 4
	<u>174.40</u> S3	Broken, from 7 to 6 o'clock, within 8 inch: YES, Start	00:08:51	8050, b	S 5
	<u>174.40</u> S4	Deformed, 15 ☐, within 8 inch: NO, Start	00:09:24	8051, b	S 5
	<u>175.90</u> F2	Fracture Multiple, from 7 to 6 o'clock, within 8 inch: YES, End	00:10:51	8052	S 4
	<u>175.90</u> F3	Broken, from 7 to 6 o'clock, within 8 inch: YES, End	00:11:12	8053, b	S 5
	<u>175.90</u> F4	Deformed, 15 ☐, within 8 inch: NO, End	00:11:36	8054	S 5
	<u>186.00</u>	Crack Multiple, from 6 to 1 o'clock, within 8 inch: YES	00:12:24	8055	S 3
	212.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:31	8056	
	226.90 F1	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES, End	00:14:04	8057	
	233.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:30	8058	
	<u>246.10</u>	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:15:04	8059	S 1
	283.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:29	8060	
	<u>307.30</u>	Crack Multiple, from 1 to 5 o'clock, within 8 inch: YES	00:17:38	8061	S 3
	307.30	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:18:10	8062	
	308.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:46	8063	
	330.90	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:19:45	8064	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5443	2100	39	2	41	3.9	2	3.73



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 08/01/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 936	PSR: 79624
Total Pipe Length: 344.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 08/01/2007	Pre-Cleaned: Jetting	Map Grid #: 1545

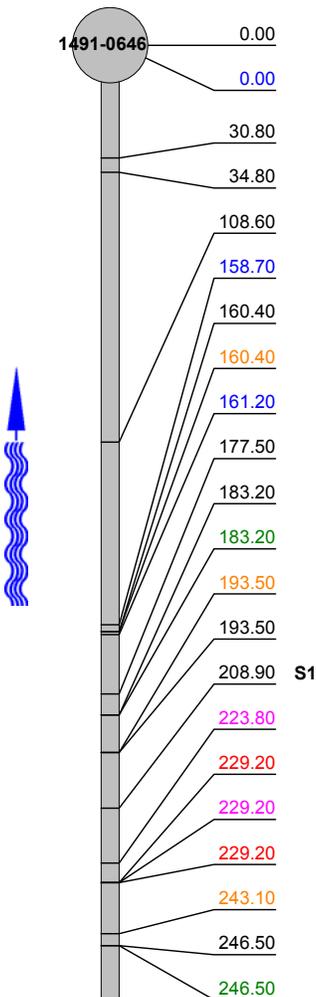
VERDES

Street: 0	Flow Control: Not Controlled	Start MH: 1491-0646
City: RPV	Year Renewed:	End MH: 1545-0121
Location Code: Easement Right of Way	Tape/Media #: G312-048	pipe length: 349.5 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0121 1545-0646 1491	Lining Method:
	Category:

Remark::

1:627	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM SURVEY BEGINS	00:00:43	9507	
	0.00	Water Level, 5", within 8 inch: NO	00:01:14	9508	M 2
	30.80	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:02:15	9509	
	34.80	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO	00:02:46	9510	
	108.60	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:04:44	9511	
	158.70	Joint Offset Large, within 8 inch: YES	00:06:24	9512, b	S 2
	160.40	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:08:18	9514	
	160.40	Roots Medium Lateral, from 2 to 5 o'clock, 20", within 8 inch: NO	00:08:45	9515, b	M 3
	161.20	Joint Offset Large, within 8 inch: YES	00:10:08	9517, b	S 2
	177.50	Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO	00:11:08	9519	
	183.20	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:12:18	9520, b	
	183.20	Crack Circumferential, from 12 to 9 o'clock, within 8 inch: YES	00:12:58	9522, b	S 1
	193.50	Crack Multiple, from 7 to 1 o'clock, within 8 inch: YES	00:14:25	9524, b	S 3
	193.50	Roots Fine Joint, from 7 to 1 o'clock, within 8 inch: YES	00:14:46	9526, b	
	208.90	Roots Fine Joint, from 8 to 1 o'clock, within 8 inch: YES, Start	00:15:52	9528, b	
	223.80	Fracture Multiple, from 6 to 1 o'clock, within 8 inch: YES	00:16:59	9530, b	S 4
	229.20	Broken, from 7 to 5 o'clock, within 8 inch: YES	00:18:05	9532, b	S 5
	229.20	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:18:31	9534, b	S 4
	229.20	Deformed, 15", within 8 inch: NO	00:18:54	9536, b	S 5
	243.10	Crack Multiple, from 7 to 6 o'clock, within 8 inch: NO	00:20:38	9538, b	S 3
	246.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:21:25	9540	
	246.50	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:21:44	9541, b	M 1





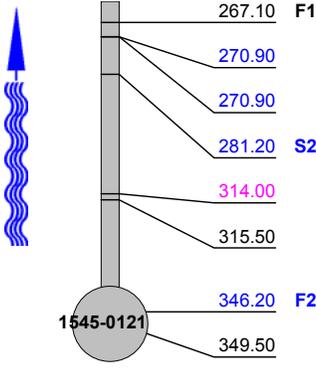
YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 08/01/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 936	PSR: 79624
Total Pipe Length: 344.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 08/01/2007	Pre-Cleaned: Jetting	Map Grid #: 1545

VERDES

1:627	position	observation	MPEG	photo	grade
	267.10 F1	Roots Fine Joint, from 8 to 1 o'clock, within 8 inch: YES, End	00:22:45	9543	
	270.90	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: NO	00:23:35	9544, b	S 2
	270.90	Roots Fine Barrel, from 3 to 9 o'clock, within 8 inch: NO	00:23:58	9546, b	M 2
	281.20 S2	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES, Start	00:25:10	9548, b	S 2
	314.00	Fracture Multiple, from 2 to 1 o'clock, within 8 inch: YES	00:27:04	9550, b	S 4
	315.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:27:37	9552	
	346.20 F2	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: YES, End	00:28:36	9553	S 2
	349.50	Manhole, within 8 inch: NO, Remarks: Upstream Survey Ends	00:29:21	9554	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5243	3122	39	8	47	3	2	2.76



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/25/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Martin Garcia	section number: 1197	PSR: 75839
Total Pipe Length: 193.00	Survey Customer: LACDPW	System Owner: Rancho Palos Verde	Clean Date: 06/15/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1545-0580
City: RPV	Year Renewed:	End MH: 1545-0573
Location Code: Easement Right of Way	Tape/Media # M313-019	pipe length: 200.9 ft

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

Remark::

1:500	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH 1545-0580-SUR	00:00:38	12508	
	6.00	Water Level, 15", within 8 inch: NO	00:02:26	12509	M 2
	91.70	Water Level, 10", within 8 inch: NO	00:05:04	12510	M 2
	109.80	Alignment Down, within 8 inch: NO	00:05:40	12511	M 1
	136.90	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:06:29	12512	
	139.80	Fracture Circumferential, from 9 to 3 o'clock, within 8 inch: YES	00:07:46	12513	S 2
	140.60	Roots Medium Joint, from 7 to 5 o'clock, 20", within 8 inch: YES	00:08:21	12514	
	167.40	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:10:26	12515	S 1
	172.50	Broken, from 7 to 5 o'clock, within 8 inch: NO	00:11:41	12516, b	S 5
	177.50	Fracture Circumferential, from 1 to 6 o'clock, within 8 inch: YES	00:12:36	12517	S 2
	177.50	Roots Fine Joint, from 1 to 8 o'clock, within 8 inch: YES	00:13:01	12518	
	187.90	Broken Void Visible, from 1 to 5 o'clock, within 8 inch: YES	00:14:02	12519, b	S 5
	193.00	Crack Circumferential, from 7 to 1 o'clock, within 8 inch: YES	00:15:26	12520	S 1
	197.60	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:15:59	12521	
	197.60	Fracture Circumferential, from 4 to 9 o'clock, within 8 inch: YES	00:16:22	12522	S 2
	200.90	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH 1545-0573-S	00:17:30	12523	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5223	2211	18	5	23	2.57	1.67	2.3



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/26/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1470	PSR: 77034
Total Pipe Length: 208.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/25/2007	Pre-Cleaned: Jetting	Map Grid #: 1544

VERDES

Street: MESABA DR	Flow Control: Not Controlled	Start MH: 1544-0384
City: RPV	Year Renewed:	End MH: 1544-0385
Location Code: Light Highway	Tape/Media # A315-003	pipe length: 200.3 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0384 1544-0385 1544	Lining Method:
	Category:

Remark::

1:429	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH, BEGIN SURVEY	00:00:28	15572	
	4.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:38	15573	
	6.00	Water Level, within 8 inch: NO	00:02:59	15574	M 2
	6.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:08	15575	
	6.80	Roots Ball Lateral, at 3 o'clock, 95 #, within 8 inch: NO	00:04:36	15576	M 4
	8.60	Roots Fine Joint, from 8 to 3 o'clock, within 8 inch: YES	00:05:13	15577	
	9.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:34	15578	
	10.90	Roots Fine Joint, from 9 to 4 o'clock, within 8 inch: YES	00:06:06	15579	
	14.70	Roots Fine Joint, from 8 to 4 o'clock, within 8 inch: YES	00:06:52	15580	
	18.10	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:07:16	15581	
	22.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:45	15582	
	22.50	Roots Medium Lateral, at 9 o'clock, 30 #, within 8 inch: NO	00:08:15	15583	M 3
	24.10	Roots Fine Joint, from 8 to 1 o'clock, within 8 inch: YES	00:08:37	15584	
	55.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:49	15585	
	82.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:46	15586	
	111.00	Fracture Circumferential, from 8 to 1 o'clock, within 8 inch: YES	00:12:03	15587	S 2
	111.00	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:12:30	15588	S 1
	117.70	Crack Circumferential, from 1 to 4 o'clock, within 8 inch: YES	00:13:28	15589	S 1
	117.70	Crack Circumferential, from 8 to 1 o'clock, within 8 inch: YES	00:13:50	15590	S 1
	122.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:13	15591	
	133.80	Fracture Circumferential, from 5 to 6 o'clock, within 8 inch: YES	00:15:01	15592	S 2
	133.80	Crack Longitudinal, at 5 o'clock, within 8 inch: YES	00:15:26	15593	S 2
	158.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:16:38	15594	



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

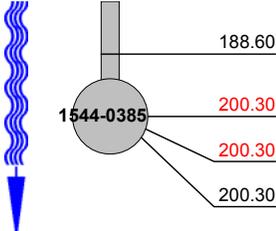
Inspection report

Date: 07/26/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1470	PSR: 77034
Total Pipe Length: 208.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/25/2007	Pre-Cleaned: Jetting	Map Grid #: 1544

VERDES

1:429	position	observation	MPEG	photo	grade
	188.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:17:44	15595	
	200.30	Hole Soil Visible, from 3 to 5 o'clock, within 8 inch: NO, Remarks: INSIDE DOWNSTREAM MH	00:18:58	15596	S 5
	200.30	Hole Soil Visible, from 7 to 9 o'clock, within 8 inch: NO, Remarks: INSIDE DOWNSTREAM MH	00:19:43	15597	S 5
	200.30	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH, END SURVEY	00:20:39	15598	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5223	4131	19	9	28	2.38	3	2.55





YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/04/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 377	PSR: 80585
Total Pipe Length: 183.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS VERDES	Clean Date: 06/01/2007	Pre-Cleaned: Jetting	Map Grid #: 1490

Street: MAYCROFT DR	Flow Control: Not Controlled	Start MH: 1490-0233
City: RANCHO PALOS VERDES	Year Renewed:	End MH: 1490-0232
Location Code: Light Highway	Tape/Media # G312-012	pipe length: 240.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0233 1490-0232 1490	Lining Method:
	Category:

Remark: _____

1:600	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:44	3316	
	1.00	Roots Fine Joint, from 3 to 5 o'clock, within 8 inch: YES	00:01:55	3317	
	5.00	Water Level, 5", within 8 inch: NO	00:02:31	3318	M 2
	6.60	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:02:49	3319	
	32.10	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:4:10	3320	
	62.80	Roots Tap Lateral, from 6 to 1 o'clock, 15", within 8 inch: NO	00:05:38	3321	M 2
	82.90	Roots Tap Joint, from 7 to 1 o'clock, 20", within 8 inch: YES	00:07:18	3322	
	84.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:8:10	3323	
	84.20	Roots Tap Lateral, from 8 to 9 o'clock, 15", within 8 inch: NO	00:08:41	3324	M 2
	147.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:11:16	3325	
	147.90	Roots Tap Lateral, from 8 to 1 o'clock, 15", within 8 inch: NO	00:11:51	3326	M 2
	165.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:23	3327	
	165.40	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:13:43	3328	M 1
	219.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:45	3329	
	219.00	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:16:10	3330	M 1
	219.00	Hole Void Visible, at 9 o'clock, within 8 inch: NO, Remarks: inside lateral	00:16:54	3331	S 5
	231.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:31	3332	
	231.80	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:18:57	3333	M 1
	238.10	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:19:57	3334	
	240.20	Hole Void Visible, from 4 to 8 o'clock, within 8 inch: NO	00:20:39	3335	S 5
	240.70	Roots Fine Barrel, from 3 to 9 o'clock, within 8 inch: NO, Remarks: inside channel of MH	00:21:32	3336	M 2
	240.70	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:22:06	3337	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	2513	10	13	23	5	1.63	2.3



Inspection report

Date: 06/13/2007	P.O.☐ YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 513	PSR: 79563
Total Pipe Length: 345.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/12/2007	Pre-Cleaned: Jetting	Map Grid ☐ 1491

VERDES

Street: LARKVALE DR	Flow Control: Not Controlled	Start MH: 1491-0687
City: RPV	Year Renewed	End MH: 1491-0686
Location Code: Light Highway	Tape/Media ☐ G312-019	pipe length: 330.4 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0687 1491-0686 1491	Lining Method:
	Category:

Remark::

1:825	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:39	5050	
	5.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:28	5051	
	5.00 S2	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO, Start	00:01:50	5052	M 1
	5.00	Water Level, 10 ☐, within 8 inch: NO	00:02:18	5053	M 2
	6.60 S1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:02:49	5054	
	45.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:22	5055	
	71.90 F1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:05:48	5056	
	73.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:20	5057	
	73.00	Roots Tap Lateral, at 9 o'clock, 15 ☐, within 8 inch: NO	00:06:41	5058	M 2
	79.90 S3	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES, Start	00:07:28	5059	
	111.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:37	5060	
	144.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:02	5061	
	182.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:08	5062	
	215.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:12	5063	
	253.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:47	5064	
	271.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:14:47	5065	
	271.20	Roots Fine Lateral, within 8 inch: NO	00:15:08	5066	M 1
	271.20 F2	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO, End	00:20:07	5067	M 1
	328.00 F3	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES, End	00:17:01	5068	
	330.10	Hole Void Visible, from 3 to 5 o'clock, within 8 inch: NO	00:17:43	5069	S 5
	330.10	Hole Soil Visible, from 7 to 9 o'clock, within 8 inch: NO	00:18:07	5070	S 5
	330.40	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:19:14	5071	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	2213	10	7	17	5	1.4	2.43



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/26/2007	P.O.☐: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1473	PSR: 77404
Total Pipe Length: 180.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/25/2007	Pre-Cleaned: Jetting	Map Grid ☐: 1544

VERDES

Street: ALVAREZ DR	Flow Control: Not Controlled	Start MH: 1544-0103
City: RPV	Year Renewed	End MH: 1544-0104
Location Code: Light Highway	Tape/Media ☐: A315-003	pipe length: 101.7 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0103 1544-0104 1544	Lining Method:
	Category:

Remark::

1:250	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH, BEGIN SURVEY	00:00:27	15616	
	3.00	Roots Fine Joint, at 10 o'clock, within 8 inch: YES	00:01:54	15617	
	5.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:02:28	15618	
	6.00	Water Level, 5 ☐, within 8 inch: NO	00:04:08	15619	M 2
	9.00	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	00:04:36	15620	
	13.90	Roots Fine Joint, from 6 to 1 o'clock, within 8 inch: YES	00:05:01	15621	
	19.30	Roots Fine Joint, from 7 to 2 o'clock, within 8 inch: YES	00:05:24	15622	
	24.10	Roots Fine Joint, from 9 to 2 o'clock, within 8 inch: YES	00:05:49	15623	
	25.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:13	15624	
	26.50	Roots Fine Joint, from 10 to 2 o'clock, within 8 inch: YES	00:06:34	15625	
	51.70	Roots Fine Joint, from 9 to 3 o'clock, within 8 inch: YES	00:07:31	15626	
	52.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:55	15627	
	52.90	Roots Ball Lateral, at 9 o'clock, 95 ☐, within 8 inch: NO	00:08:17	15628	M 4
	96.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:54	15629	
	101.60	Hole Soil Visible, from 4 to 5 o'clock, within 8 inch: NO, Remarks: INSIDE DOWNSTREAM MH	00:10:47	15630	S 5
	101.60	Hole Soil Visible, from 7 to 8 o'clock, within 8 inch: NO, Remarks: INSIDE DOWNSTREAM MH	00:11:24	15631	S 5
	101.70	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH BURIED, END	00:12:25	15632	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	4121	10	6	16	5	3	4



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/01/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 366	PSR: 80673
Total Pipe Length: 147.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS VERDES	Clean Date: 05/31/2007	Pre-Cleaned: Jetting	Map Grid #: 1490

Street: GOLDEN MEADOW DR	Flow Control: Not Controlled	Start MH: 1490-0212
City: RANCHO PALOS VERDES	Year Renewed:	End MH: 1490-0211
Location Code: Light Highway	Tape/Media # G312-011	pipe length: 169.3 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 8"	Material: Vitrified Clay Pipe Pipe Length:
Use of Sewer: Sanitary	Lining Method:	
Drain. Area: 0212 1490-0211 1490	Category:	

Remark: _____

1:425	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:43	3169	
	0.00	Water Level, 10", within 8 inch: NO	00:01:07	3170	M 2
	4.90	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:01:38	3171	
	6.10 S1	Roots Fine Joint, from 2 to 8 o'clock, within 8 inch: YES, Start	00:02:37	3172	
	52.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:14	3173	
	52.60	Roots Tap Lateral, at 3 o'clock, 15", within 8 inch: NO	00:04:40	3174	M 2
	105.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:29	3175	
	105.70	Roots Tap Lateral, from 3 to 4 o'clock, 15", within 8 inch: NO	00:06:54	3176	M 2
	116.70 F1	Roots Fine Joint, from 2 to 8 o'clock, within 8 inch: YES, End	00:07:52	3177	
	167.80	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:09:43	3178	
	167.80	Fracture Multiple, from 3 to 5 o'clock, within 8 inch: YES	00:10:18	3179	S 4
	168.80	Hole Void Visible, from 6 to 8 o'clock, within 8 inch: NO, Remarks: Inside Channel of MH	00:11:16	3180	S 5
	169.30	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:12:19	3181	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2300	9	6	15	4.5	2	3



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/11/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 485	PSR: 79557
Total Pipe Length: 242.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS VERDES	Clean Date: 06/08/2007	Pre-Cleaned: Jetting	Map Grid #: 1491

Street: HARTCREST DR	Flow Control: Not Controlled	Start MH: 1491-0693
City: RANCHO PALOS VERDES	Year Renewed:	End MH: 1491-0681
Location Code: Light Highway	Tape/Media # G312-017	pipe length: 262.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0693 1491-0681 1491	Lining Method:
	Category:

Remark::

1:650	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:38	4642	
	0.00	Water Level, 10 #, within 8 inch: NO	00:00:59	4643	M 2
	18.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:40	4644	
	18.50	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:02:00	4645	M 1
	40.20	Roots Fine Joint, from 12 to 5 o'clock, within 8 inch: YES	00:3:10	4646	
	61.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:15	4647	
	79.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:05:03	4648	
	79.20	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:05:23	4649	M 1
	95.80	Roots Fine Joint, from 7 to 1 o'clock, within 8 inch: YES	00:06:27	4650	
	146.10	Deposits Ingressed Fine, from 5 to 6 o'clock, 10 #, within 8 inch: YES, Remarks: slurry	00:08:47	4651	M 2
	162.40	Broken, from 7 to 1 o'clock, within 8 inch: YES	00:10:02	4652, b	S 5
	162.40	Fracture Multiple, from 7 to 1 o'clock, within 8 inch: YES	00:10:37	4653	S 4
	162.40	Roots Fine Barrel, from 7 to 1 o'clock, within 8 inch: NO	00:11:01	4654	M 2
	162.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:43	4655	
	170.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:13	4656	
	260.50	Fracture Circumferential, from 7 to 6 o'clock, within 8 inch: NO	00:14:45	4657	S 2
	262.80	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:15:43	4658	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5141	2312	11	8	19	3.67	1.6	2.38



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

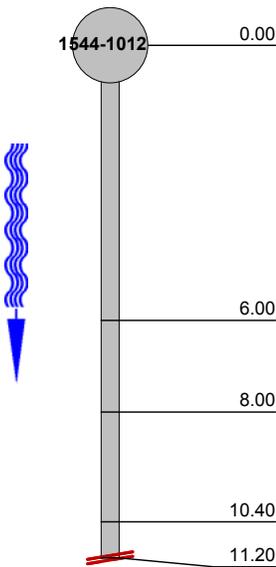
Date: 06/25/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Martin Garcia	section number: 1203	PSR: 77371
Total Pipe Length: 72.00	Survey Customer: LACDPW	System Owner: Rancho Palos Verde	Clean Date: 06/15/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: EASEMENT	Flow Control: Not Controlled	Start MH: 1544-1012
City: RPV	Year Renewed:	End MH: 1544-0070
Location Code: Easement Right of Way	Tape/Media # M313-019	pipe length: 11.2 ft

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

Remark::

1:50	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH 1544-1012-SUR	00:00:28	12582	
	6.00	Roots Medium Joint, from 11 to 7 o'clock, 10", within 8 inch: YES	00:01:37	12583	
	8.00	Roots Ball Joint, from 7 to 5 o'clock, 90", within 8 inch: YES	00:02:53	12584	
	10.40	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:03:51	12585	
	11.20	Abandoned Survey, within 8 inch: NO, Remarks: UNABLE TO GET BY ROOTS	00:06:37	12586	



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



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/25/2007	P.O.☐ YOTV0607D	Weather: Dry	Surveyed By: Martin Garcia	section number: 1200	PSR: 75841
Total Pipe Length: 323.00	Survey Customer: LACDPW	System Owner: Rancho Palos Verde	Clean Date: 06/15/2007	Pre-Cleaned: Jetting	Map Grid ☐

Street: RIDGETHORNE CT	Flow Control: Not Controlled	Start MH: 1545-0575
City: RPV	Year Renewed	End MH: 1545-0576
Location Code: Light Highway	Tape/Media ☐ M313-019	pipe length: 199.8 ft

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

Remark::

1:500	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH 1545-0575-SUR	00:00:31	12542	
	6.00	Water Level, 15 ☐, within 8 inch: NO	00:01:25	12543	M 2
	9.70	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:02:14	12544	
	9.70	Roots Medium Lateral, at 3 o'clock, 25 ☐, within 8 inch: NO	00:02:37	12545	M 3
	12.30	Water Level, 15 ☐, within 8 inch: NO	00:02:56	12546	M 2
	15.50	Roots Fine Barrel, from 11 to 1 o'clock, within 8 inch: NO	00:03:18	12547	M 2
	40.70	Water Level, 20 ☐, within 8 inch: NO	00:4:10	12548	M 2
	54.10	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:04:43	12549	
	69.10	Water Level, 10 ☐, within 8 inch: NO	00:05:20	12550	M 2
	76.80	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:05:45	12551	
	84.30	Deposits Attached Grease, from 10 to 2 o'clock, 5 ☐, within 8 inch: NO	00:06:18	12552	M 2
	92.50	Deposits Attached Grease, from 10 to 2 o'clock, 5 ☐, within 8 inch: NO	00:06:57	12553	M 2
	99.10	Fracture Circumferential, from 7 to 9 o'clock, within 8 inch: YES	00:07:29	12554	S 2
	99.10	Roots Fine Joint, at 9 o'clock, within 8 inch: YES	00:07:49	12555	
	105.30	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:08:30	12556	
	130.10	Water Level, 20 ☐, within 8 inch: NO	00:09:22	12557	M 2
	148.80	Tap Factory Active, at 12 o'clock, 4", within 8 inch: NO	00:10:07	12558	
	172.60	Broken Soil Visible, from 7 to 1 o'clock, within 8 inch: NO	00:11:35	12559	S 5
	199.80	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH 1545-0576-S	00:13:18	12560	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5121	3128	7	19	26	3.5	2.11	2.36



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/01/2007	P.O. # YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 367	PSR: 80584
Total Pipe Length: 283.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS VERDES	Clean Date: 05/31/2007	Pre-Cleaned: Jetting	Map Grid # 1490

Street: MAYCROFT DR	Flow Control: Not Controlled	Start MH: 1490-0232
City: RANCHO PALOS VERDES	Year Renewed	End MH: 1490-0231
Location Code: Light Highway	Tape/Media # G312-011	pipe length: 212.1 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0232 1490-0231 1490	Lining Method:
	Category:

Remark::

1:525	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:43	3182	
	0.00	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES, Start	00:01:42	3183	
	5.00	Water Level, 5", within 8 inch: NO	00:02:24	3184	M 2
	41.30	Roots Tap Joint, from 7 to 5 o'clock, 15", within 8 inch: YES	00:03:47	3185	
	52.00	Roots Tap Joint, from 3 to 9 o'clock, 15", within 8 inch: YES	00:05:56	3186	
	52.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:33	3187	
	52.90	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:06:53	3188	M 1
	60.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:57	3189	
	60.50	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:08:16	3190	M 1
	76.90	Roots Tap Joint, from 3 to 9 o'clock, 15", within 8 inch: YES	00:09:16	3191	
	123.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:52	3192	
	123.90	Roots Tap Lateral, at 3 o'clock, 15", within 8 inch: NO	00:11:19	3193	M 2
	132.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:11	3194	
	132.10	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:12:31	3195	M 1
	195.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:14:39	3196	
	195.60	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:15:09	3197	M 1
	203.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:15:57	3198	
	203.20	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:16:19	3199	M 1
	209.80	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES, End	00:17:10	3200	
	212.10	Hole Void Visible, from 6 to 8 o'clock, within 8 inch: NO	00:17:49	3201	S 5
	212.10	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:18:42	3202	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2215	5	9	14	5	1.29	1.75



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/01/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Martin Garcia	section number: 1041	PSR: 77438
Total Pipe Length: 273.00	Survey Customer: LACDPW	System Owner: Rancho Palos Verdes	Clean Date: 05/29/2007	Pre-Cleaned: Jetting	Map Grid #:

Street: SAN NICOLAS DR	Flow Control: Not Controlled	Start MH: 1544-0028
City: Rancho Palos Verdes	Year Renewed:	End MH: 1544-0029
Location Code: Light Highway	Tape/Media # M313-008	pipe length: 307.4 ft

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

Remark::

1:750	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH 1544-0028-SUR	00:00:36	10580	
	1.60	Water Level, 5", within 8 inch: NO	00:00:54	10581	M 2
	101.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:05	10582	
	183.10	Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO	00:07:51	10583	
	258.90	Roots Fine Joint, from 12 to 1 o'clock, within 8 inch: YES	00:11:15	10584	
	282.90	Deposits Attached Grease, from 8 to 4 o'clock, 5", within 8 inch: NO	00:12:49	10585	M 2
	290.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:18	10586	
	290.10	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:13:37	10587	M 1
	296.50	Water Level, 10", within 8 inch: NO	00:14:10	10588	M 2
	307.00	Hole, from 4 to 8 o'clock, within 8 inch: NO, Remarks: IN MANHOLE	00:15:11	10589	S 5
	307.40	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH 1544-0029-S	00:15:51	10590	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2311	5	7	12	5	1.75	2.4



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/24/2007	P.O.☐: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1443	PSR: 75737
Total Pipe Length: 226.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/23/2007	Pre-Cleaned: Jetting	Map Grid ☐: 1545

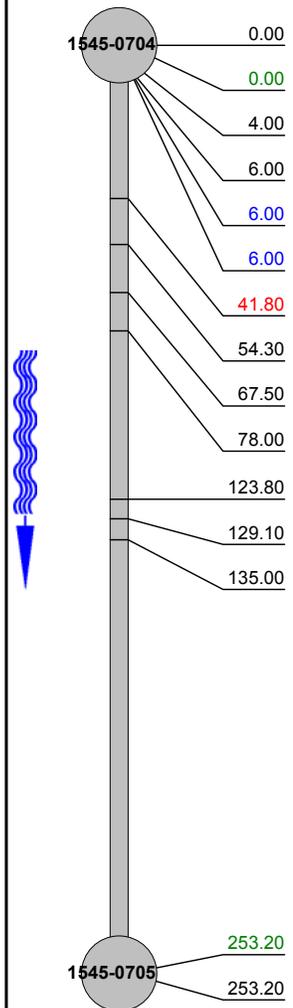
VERDES

Street: KING ARTHUR CT	Flow Control: Not Controlled	Start MH: 1545-0704
City: RPV	Year Renewed	End MH: 1545-0705
Location Code: Light Highway	Tape/Media ☐: A315-001	pipe length: 253.2 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0704 1545-0705 1545	Lining Method:
	Category:

Remark::

1:625	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH, BEGIN SURVEY	00:00:28	15142	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:42	15143	M 1
	4.00	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:02:13	15144	
	6.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:43	15145	
	6.00	Water Level, 5 ☐, within 8 inch: NO	00:04:03	15146	M 2
	6.00	Water Mark, 15 ☐, within 8 inch: NO	00:04:19	15147	M 2
	41.80	Broken Void Visible, from 11 to 2 o'clock, within 8 inch: NO	00:06:15	15148, b	S 5
	54.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:01	15149	
	67.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:08:41	15150	
	78.00	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	00:09:23	15151	
	123.80	Roots Medium Joint, from 11 to 4 o'clock, 5 ☐, within 8 inch: YES	00:11:18	15152	
	129.10	Roots Medium Joint, from 12 to 1 o'clock, 5 ☐, within 8 inch: YES	00:12:26	15153	
	135.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:17	15154	
	253.20	Vermin Cockroach, within 8 inch: NO	00:16:40	15155	M 1
	253.20	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH, END SURVEY	00:17:08	15156	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2212	5	6	11	5	1.5	2.2



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/25/2007	P.O.☐ YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1446	PSR: 75747
Total Pipe Length: 265.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/24/2007	Pre-Cleaned: Jetting	Map Grid ☐: 1545

VERDES

Street: ARMARGA SPRING RD	Flow Control: Not Controlled	Start MH: 1545-0714
City: RPV	Year Renewed	End MH: 1545-0713
Location Code: Light Highway	Tape/Media ☐: A315-002	pipe length: 294.9 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0714 1545-0713 1545	Lining Method:
	Category:

Remark::

1:725	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH, BEGIN SURVEY	00:00:27	15176	
	4.00	Roots Fine Joint, from 1 to 3 o'clock, within 8 inch: YES	00:02:08	15177	
	6.00	Water Level, 15 ☐, within 8 inch: NO	00:05:59	15178	M 2
	6.00	Water Mark, 20 ☐, within 8 inch: NO	00:06:16	15179	M 2
	38.20	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:07:35	15180	
	41.00	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:08:22	15181	
	94.20	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:10:05	15182	
	140.30	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:11:58	15183	
	142.40	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:12:44	15184	
	195.40	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:14:38	15185	
	239.40	Roots Fine Joint, from 7 to 8 o'clock, within 8 inch: YES	00:16:08	15186	
	240.60	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:16:41	15187	
	240.60	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:17:02	15188	M 1
	245.60	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:17:49	15189	
	282.80	Roots Fine Joint, at 3 o'clock, within 8 inch: YES	00:19:15	15190	
	287.70	Roots Fine Joint, at 8 o'clock, within 8 inch: YES	00:19:47	15191	
	294.80	Hole Soil Visible, from 3 to 6 o'clock, within 8 inch: NO, Remarks: INSIDE MH 1545-0713	00:21:31	15192	S 5
	294.90	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH, END SURVEY	00:22:32	15193	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2211	5	5	10	5	1.67	2.5



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/25/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1450	PSR: 75735
Total Pipe Length: 353.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/24/2007	Pre-Cleaned: Jetting	Map Grid #: 1545

VERDES

Street: ARMARGA SPRING RD	Flow Control: Not Controlled	Start MH: 1545-0705
City: RPV	Year Renewed:	End MH: 1545-0702
Location Code: Light Highway	Tape/Media # A315-002	pipe length: 314.5 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0705 1545-0702 1545	Lining Method:
	Category:

Remark::

1:429	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH, BEGIN SURVEY	00:00:28	15252	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:42	15253	M 1
	6.00	Water Level, 15", within 8 inch: NO	00:01:22	15254	M 2
	6.00	Water Mark, 25", within 8 inch: NO	00:01:38	15255	M 2
	7.90	Roots Fine Joint, at 12 o'clock, within 8 inch: YES	00:01:55	15256	
	23.10	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	00:02:38	15257	
	28.10	Roots Fine Joint, from 11 to 1 o'clock, within 8 inch: YES	00:03:07	15258	
	43.20	Roots Fine Joint, at 10 o'clock, within 8 inch: YES	00:03:50	15259	
	48.40	Roots Fine Joint, from 8 to 1 o'clock, within 8 inch: YES	00:04:16	15260	
	49.30	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:04:38	15261	
	55.90	Roots Fine Joint, at 2 o'clock, within 8 inch: YES	00:05:05	15262	
	57.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:29	15263	
	57.10	Roots Medium Lateral, at 3 o'clock, 30", within 8 inch: NO	00:05:57	15264	M 3
	58.50	Roots Fine Joint, from 10 to 3 o'clock, within 8 inch: YES	00:06:22	15265	
	68.70	Roots Fine Joint, from 12 to 2 o'clock, within 8 inch: YES	00:06:56	15266	
	78.90	Roots Medium Joint, from 9 to 1 o'clock, 5", within 8 inch: YES	00:07:43	15267	
	109.40	Roots Medium Joint, at 11 o'clock, 5", within 8 inch: YES	00:09:32	15268	
	110.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:14	15269	
	110.40	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:10:37	15270	M 1
	114.00	Roots Fine Joint, from 9 to 1 o'clock, within 8 inch: YES	00:11:04	15271	
	134.10	Roots Medium Joint, from 10 to 2 o'clock, 5", within 8 inch: YES	00:12:13	15272	
	139.20	Roots Medium Joint, from 9 to 3 o'clock, 5", within 8 inch: YES	00:13:23	15273	
	149.40	Roots Fine Joint, from 10 to 1 o'clock, within 8 inch: YES	00:14:31	15274	



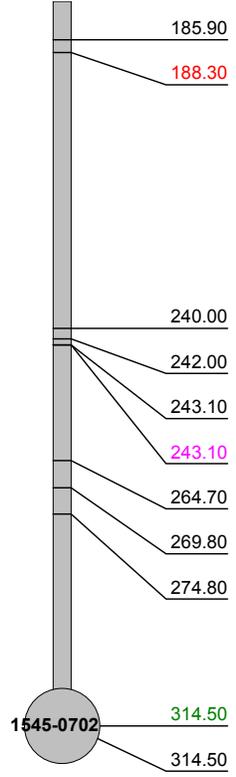
YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/25/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1450	PSR: 75735
Total Pipe Length: 353.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/24/2007	Pre-Cleaned: Jetting	Map Grid #: 1545

VERDES

1:429	position	observation	MPEG	photo	grade
	185.90	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:16:01	15275	
	188.30	Broken Soil Visible, from 7 to 1 o'clock, within 8 inch: NO	00:17:43	15276, b	S 5
	240.00	Roots Fine Joint, from 1 to 3 o'clock, within 8 inch: YES	00:20:45	15277	
	242.00	Roots Fine Joint, from 9 to 1 o'clock, within 8 inch: YES	00:21:15	15278	
	243.10	Tap Factory, at 9 o'clock, 6", within 8 inch: NO, Remarks: POSSIBLE CAPPED	00:21:52	15279	
	243.10	Roots Ball Lateral, at 9 o'clock, 95 °, within 8 inch: NO	00:22:18	15280	M 4
	264.70	Roots Fine Joint, from 9 to 1 o'clock, within 8 inch: YES	00:23:37	15281	
	269.80	Roots Fine Joint, from 10 to 1 o'clock, within 8 inch: YES	00:24:07	15282	
	274.80	Roots Medium Joint, from 10 to 2 o'clock, 5 °, within 8 inch: YES	00:25:08	15283	
	314.50	Vermin Cockroach, within 8 inch: NO	00:27:04	15284	M 1
	314.50	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH, END SURVEY	00:27:33	15285	





YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/13/2007	P.O. # YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 509	PSR: 79560
Total Pipe Length: 361.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/12/2007	Pre-Cleaned: Jetting	Map Grid # 1491

VERDES

Street: GOLDEN MEADOW DR	Flow Control: Not Controlled	Start MH: 1491-0684
City: RPV	Year Renewed	End MH: 1491-0683
Location Code: Light Highway	Tape/Media # G312-019	pipe length: 351.1 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 10"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0684 1491-0683 1491	Lining Method:
	Category:

Remark::

1:693	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:44	4976	
	6.00	Water Level, 10 #, within 8 inch: NO	00:01:32	4977	M 2
	35.40	Crack Circumferential, from 10 to 1 o'clock, within 8 inch: YES	00:02:56	4978	S 1
	35.40	Crack Circumferential, from 12 to 3 o'clock, within 8 inch: YES	00:03:20	4979	S 1
	41.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:15	4980	
	44.60	Crack Circumferential, from 12 to 5 o'clock, within 8 inch: YES	00:04:57	4981	S 1
	55.10	Crack Longitudinal, at 8 o'clock, within 8 inch: YES	00:06:18	4982	S 2
	55.10	Crack Longitudinal, at 3 o'clock, within 8 inch: YES	00:06:42	4983	S 2
	56.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:27	4984	
	69.60	Crack Circumferential, from 1 to 5 o'clock, within 8 inch: NO	00:08:15	4985	S 1
	104.90	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:10:01	4986	S 3
	116.50	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:10:59	4987	
	116.50	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:11:20	4988	M 1
	128.40	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO	00:12:22	4989	
	128.40	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:12:42	4990	M 1
	187.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:15:02	4991	
	187.30	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:15:23	4992	M 1
	195.30	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:16:36	4993	S 4
	201.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:17:22	4994	
	256.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:19:13	4995	
	264.80	Crack Circumferential, from 2 to 8 o'clock, within 8 inch: YES	00:20:11	4996	S 1
	266.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:20:46	4997	
	273.70	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:21:37	4998	S 4
	284.20	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES	00:22:36	4999	S 2



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/13/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 509	PSR: 79560
Total Pipe Length: 361.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/12/2007	Pre-Cleaned: Jetting	Map Grid #: 1491

VERDES

1:693	position	observation	MPEG	photo	grade		
	<p style="margin-left: 20px;">299.40</p> <p style="margin-left: 20px;">331.40</p> <p style="margin-left: 20px;">340.80</p> <p style="margin-left: 20px;">351.10</p> <p style="margin-left: 20px;">1491-0683</p>	<p>Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES</p> <p>Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO</p> <p>Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO</p> <p>Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends</p>	<p>00:23:41</p> <p>00:25:19</p> <p>00:25:57</p> <p>00:26:59</p>	<p>5000</p> <p>5001</p> <p>5002</p> <p>5003</p>	<p>S 2</p>		
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4231	2113	24	5	29	2	1.25	1.81



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/25/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 871	PSR: 76287
Total Pipe Length: 160.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/24/2007	Pre-Cleaned: Jetting	Map Grid #: 1545

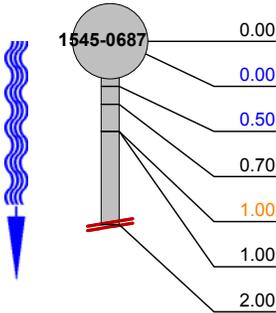
VERDES

Street: 0	Flow Control: Not Controlled	Start MH: 1545-0687
City: RPV	Year Renewed:	End MH: 1545-0150
Location Code: Easement Right of Way	Tape/Media # G312-044	pipe length: 2 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0687 1545-0150 1545	Lining Method:
	Category:

Remark::

1:25	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:55	8559	
	0.00	Infil Weeper, from 3 to 4 o'clock, within 8 inch: NO	00:03:45	8560, b	M 2
	0.50	Deposits Attached Encrustation, from 2 to 5 o'clock, 10 #, within 8 inch: NO, Remarks: calcium	00:02:06	8562, b	M 2
	0.70	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:02:47	8564, b	
	1.00	Deposits Settled Compacted, from 2 to 4 o'clock, 15 #, within 8 inch: YES, Remarks: cement	00:05:27	8566, b	M 3
	1.00	Roots Fine Joint, at 7 o'clock, within 8 inch: YES	00:05:54	8568, b	
	2.00	Abandoned Survey, within 8 inch: NO, Remarks: camera blocked by cement	00:07:35	8570	



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	3122	0	7	7	0	2.33	2.33



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/13/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 506	PSR: 80671
Total Pipe Length: 313.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/12/2007	Pre-Cleaned: Jetting	Map Grid #: 1490

VERDES

Street: GOLDEN MEADOW DR	Flow Control: Not Controlled	Start MH: 1490-0211
City: RPV	Year Renewed:	End MH: 1490-0210
Location Code: Light Highway	Tape/Media #: G312-019	pipe length: 295 ft

Reason for inspection: Routine Assessment	Dia./Height: Circular 10"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0211 1490-0210 1490	Lining Method:
	Category:

Remark::

1:725	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:41	4924	
	5.00 S1	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES, Start	00:01:45	4925	
	6.00	Water Level, 15 #, within 8 inch: NO	00:02:20	4926	M 2
	8.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:45	4927	
	8.20	Roots Tap Lateral, from 3 to 4 o'clock, 10 #, within 8 inch: NO	00:03:07	4928	M 2
	26.70 F1	Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES, End	00:04:16	4929	
	69.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:47	4930	
	73.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:15	4931	
	73.10	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:06:35	4932	M 1
	75.90	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:07:26	4933	
	143.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:08	4934	
	143.90	Roots Tap Lateral, from 8 to 9 o'clock, 15 #, within 8 inch: NO	00:10:34	4935	M 2
	145.80	Crack Multiple, from 2 to 4 o'clock, within 8 inch: NO	00:11:25	4936	S 3
	146.60	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:12:08	4937	
	146.60	Hole, from 12 to 2 o'clock, within 8 inch: NO	00:12:58	4938	S 4
	146.60	Roots Fine Barrel, from 12 to 3 o'clock, within 8 inch: NO	00:13:34	4939	M 2
	147.10	Crack Multiple, from 12 to 5 o'clock, within 8 inch: NO	00:14:25	4940	S 3
	164.90	Crack Circumferential, from 6 to 1 o'clock, within 8 inch: YES	00:15:45	4941	S 1
	195.50	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:17:20	4942	S 2
	212.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:18:22	4943	
	216.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:18:52	4944	
	216.10	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:19:12	4945	M 1
	291.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:22:13	4946	
	295.00	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:22:59	4947	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4132	2412	13	10	23	2.6	1.67	2.09



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/15/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 536	PSR: 79617
Total Pipe Length: 330.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/14/2007	Pre-Cleaned: Heavy Cleaning	Map Grid #: 1491

VERDES

Street: GOLDEN MEADOW DR	Flow Control: Not Controlled	Start MH: 1491-0640
City: RPV	Year Renewed:	End MH: 1491-0639
Location Code: Easement Right of Way	Tape/Media # G312-021	pipe length: 225.1 ft
Reason for inspection: Routine Assessment	Dia/Height: Circular 10"	Material: Vitrified Clay Pipe Pipe Length:
Use of Sewer: Sanitary	Lining Method:	
Drain. Area: 0640 1491-0639 1491	Category:	

Remark::

1:550	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:42	5393	
	5.00	Water Level, 15", within 8 inch: NO, Remarks: fast flow	00:01:48	5394	M 2
	9.10	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:58	5395	
	99.30	S1 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:09:18	5396	S 4
	101.60	Broken, from 1 to 2 o'clock, within 8 inch: NO	00:10:15	5397	S 4
	103.90	F1 Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:10:55	5398	S 4
	110.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:19	5399	
	110.60	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:11:39	5400	M 1
	114.50	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:12:18	5401	
	158.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:13:29	5402	
	158.40	Fracture Longitudinal, at 8 o'clock, within 8 inch: YES	00:13:51	5403	S 3
	225.10	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:16:07	5404	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4331	2111	15	3	18	3.75	1.5	3



Inspection report

Date: 06/15/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 535	PSR: 79618
Total Pipe Length: 408.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06/14/2007	Pre-Cleaned: Heavy Cleaning	Map Grid #: 1491

VERDES

Street: GOLDEN MEADOW DR	Flow Control: Not Controlled	Start MH: 1491-0641
City: RPV	Year Renewed:	End MH: 1491-0640
Location Code: Light Highway	Tape/Media # G312-021	pipe length: 297.2 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 12"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0641 1491-0640 1491	Lining Method:
	Category:

Remark::

1:725	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:38	5373	
	<u>6.00</u>	Water Level, 15", within 8 inch: NO	00:01:57	5374	M 2
	30.30	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:02:59	5375	
	38.00 S1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:03:43	5376	
	69.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:5:10	5377	
	<u>69.70</u>	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:05:30	5378	M 1
	<u>88.20</u>	Crack Multiple, from 8 to 4 o'clock, within 8 inch: YES	00:07:24	5379	S 3
	<u>104.20</u>	Tap Break-in Intruding, at 9 o'clock, 6", 1, within 8 inch: NO, Remarks: 1" intrusion	00:08:43	5380	M 2
	<u>108.40</u>	Fracture Circumferential, from 6 to 1 o'clock, within 8 inch: YES	00:18:23	5381	S 2
	<u>128.50</u>	Crack Circumferential, from 2 to 5 o'clock, within 8 inch: YES	00:20:01	5382	S 1
	<u>133.70</u>	Fracture Circumferential, from 6 to 1 o'clock, within 8 inch: YES	00:20:48	5383	S 2
	145.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:21:54	5384	
	184.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:23:14	5385	
	219.20	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:24:52	5386	
	224.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:25:37	5387	
	231.00	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:26:13	5388	
	253.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:27:06	5389	
	281.70 F1	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:28:03	5390	
	<u>297.10</u>	Hole, from 7 to 9 o'clock, within 8 inch: NO	00:29:00	5391	S 4
	297.20	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:29:43	5392	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2211	12	5	17	2.4	1.67	2.13



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06.04.2007	P.O. □: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 386	PSR: 80587
Total Pipe Length: 357.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06.01.2007	Pre-Cleaned: Jetting	Map Grid □: 1490

VERDES

1:693	position	observation	MPEG	photo	grade
	303.30	Tap Break-in Active, at 3 o'clock, 6", within 8 inch: NO	00:18:20	3451	
	303.30	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:18:41	3452	M 1
	325.60 F4	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:19:54	3453	
	325.60 F2	Fracture Circumferential, from 4 to 8 o'clock, within 8 inch: YES, End	00:20:23	3454	S 2
	325.90	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:20:51	3455	



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

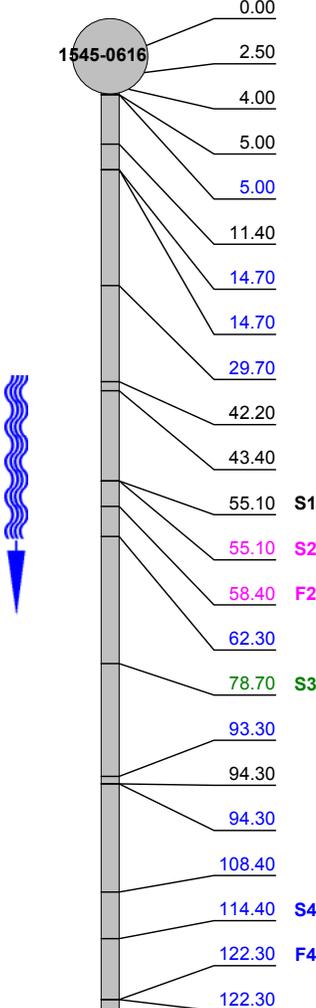
Date: 06/12/2007	P.O.☐ YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 492	PSR: 75767
Total Pipe Length: 140.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS VERDES	Clean Date: 06/11/2007	Pre-Cleaned: Jetting	Map Grid ☐: 1545

Street: ROTHROCK DR	Flow Control: Not Controlled	Start MH: 1545-0616
City: RANCHO PALOS VERDES	Year Renewed	End MH: 1545-0615
Location Code: Light Highway	Tape:Media ☐ G312-018	pipe length: 230.8 ft

Reason for inspection: Routine Assessment	Dia:Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0616 1545-0615 1545	Lining Method:
	Category:

Remark::

1:297	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: Upstream Survey Begins	00:00:43	4727	
	2.50	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:01:42	4728	
	4.00	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:02:41	4729	
	5.00	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:54	4730	
	5.00	Water Level, 5 ☐, within 8 inch: NO	00:04:15	4731	M 2
	11.40	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES	00:04:52	4732	
	14.70	Deposits Ingressed Fine, from 5 to 7 o'clock, 10 ☐, within 8 inch: NO, Remarks: silt	00:05:40	4733	M 2
	14.70	Water Level, 15 ☐, within 8 inch: NO	00:06:08	4734	M 2
	29.70	Water Level, 10 ☐, within 8 inch: NO, Remarks: held by tissue debris	00:06:49	4735	M 2
	42.20	Roots Fine Joint, from 3 to 9 o'clock, within 8 inch: YES	00:07:24	4736	
	43.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:59	4737	
	55.10	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, Start	00:08:47	4738	
	55.10	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, Start	00:10:18	4739	S 4
	58.40	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES, End	00:11:24	4740	S 4
	62.30	Water Level, 15 ☐, within 8 inch: NO	00:11:53	4741	M 2
	78.70	Alignment Right, 5 ☐, within 8 inch: NO, Start	00:12:26	4742	M 1
	93.30	Water Level, 5 ☐, within 8 inch: NO	00:13:24	4743	M 2
	94.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:13:55	4744	
	94.30	Roots Tap Lateral, at 3 o'clock, 15 ☐, within 8 inch: NO	00:14:17	4745	M 2
	108.40	Water Level, 15 ☐, within 8 inch: NO	00:15:27	4746	M 2
	114.40	Water Level Sag, 25 ☐, within 8 inch: NO, Start	00:15:51	4747	M 2
	122.30	Water Level Sag, 25 ☐, within 8 inch: NO, End	00:16:40	4748	M 2
	122.30	Water Level, 5 ☐, within 8 inch: NO	00:17:03	4749	M 2





YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06.12.2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Gilbert Contreras	section number: 492	PSR: 75767
Total Pipe Length: 140.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 06.11.2007	Pre-Cleaned: Jetting	Map Grid #: 1545

VERDES

1:297	position	observation	MPEG	photo	grade
	123.80	Tap Break-in Active, at 9 o'clock, 4", within 8 inch: NO	00:17:39	4750	
	127.30	Water Level, 15", within 8 inch: NO	00:18:04	4751	M 2
	137.10	Water Level, 5", within 8 inch: NO	00:18:28	4752	M 2
	142.90	F1 Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES, End	00:18:51	4753	
	206.70	F3 Alignment Right, 5", within 8 inch: NO, End	00:20:41	4754	M 1
	208.30	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:21:05	4755	
	211.70	Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES	00:21:47	4756	
	219.80	Roots Fine Joint, from 2 to 4 o'clock, within 8 inch: YES	00:22:32	4757	
	228.10	Roots Fine Joint, from 8 to 1 o'clock, within 8 inch: YES	00:23:18	4758	
	230.80	Manhole, within 8 inch: NO, Remarks: Downstream Survey Ends	00:24:18	4759	



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 06/12/2007	P.O.☐ YOTV0607D	Weather: Dry	Surveyed By: Martin Garcia	section number: 1143	PSR: 75694
Total Pipe Length: 302.00	Survey Customer: LACDPW	System Owner: Rancho Palos Verdes	Clean Date: 06/11/2007	Pre-Cleaned: Jetting	Map Grid ☐

Street: SEAMOUNT DR	Flow Control: Not Controlled	Start MH: 1545-0772
City: Rancho Palos Verdes	Year Renewed	End MH: 1545-0771
Location Code: Easement Right of Way	Tape/Media ☐ M313-015	pipe length: 339.1 ft

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

Remark::

1:850	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH 1545-0772-SUR	00:00:34	11923	
	2.00	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:01:27	11924	
	6.00	Water Level, 5 ☐, within 8 inch: NO	00:02:18	11925	M 2
	22.70	Alignment Left, within 8 inch: NO	00:03:04	11926	M 1
	45.30	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:09:24	11927	
	73.10	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:10:29	11928	
	123.00	Alignment Left, within 8 inch: NO	00:12:12	11929	M 1
	131.40	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:12:42	11930	
	174.70	Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO	00:14:30	11931	
	187.40	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:15:22	11932	
	193.10	Alignment Left, within 8 inch: NO	00:15:47	11933	M 1
	235.80	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:17:12	11934	
	258.80	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:18:13	11935	
	265.10	Fracture Multiple, from 7 to 5 o'clock, within 8 inch: YES	00:18:48	11936	S 4
	297.10	Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO	00:20:22	11937	
	335.00	Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO	00:21:47	11938	
	339.10	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH 1545-0771-S	00:22:26	11939	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2113	4	5	9	4	1.25	1.8



YOTV0607D
 1788 N. Neville St
 Orange, Ca 92865
 Tel: (714) 639.8352, Fax: (714)283.8578

Inspection report

Date: 07/25/2007	P.O. #: YOTV0607D	Weather: Dry	Surveyed By: Anthony Hernandez	section number: 1449	PSR: 75738
Total Pipe Length: 264.00	Survey Customer: LACDPW	System Owner: RANCHO PALOS	Clean Date: 07/24/2007	Pre-Cleaned: Jetting	Map Grid #: 1545

VERDES

Street: ARMARGA SPRING RD	Flow Control: Not Controlled	Start MH: 1545-0711
City: RPV	Year Renewed:	End MH: 1545-0705
Location Code: Light Highway	Tape/Media # A315-002	pipe length: 284.8 ft

Reason for inspection: Routine Assessment	Dia/Height: Circular 8"
Use of Sewer: Sanitary	Material: Vitrified Clay Pipe Pipe Length:
Drain. Area: 0711 1545-0705 1545	Lining Method:
	Category:

Remark::

1:700	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: UPSTREAM MH, BEGIN SURVEY	00:00:31	15236	
	0.00	Vermin Cockroach, within 8 inch: NO	00:00:45	15237	M 1
	6.00	Water Level, 20 #, within 8 inch: NO	00:01:23	15238	M 2
	12.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:50	15239	
	26.00	Broken, from 1 to 2 o'clock, within 8 inch: NO	00:02:52	15240	S 4
	28.20	Water Mark, 30 #, within 8 inch: NO	00:03:54	15241	M 2
	76.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:05:29	15242	
	80.80	Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO	00:05:54	15243	
	138.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:58	15244	
	138.90	Roots Fine Lateral, at 3 o'clock, within 8 inch: NO	00:08:23	15245	M 1
	150.70	Roots Fine Joint, from 2 to 3 o'clock, within 8 inch: YES	00:09:03	15246	
	171.90	Tap Break-in Active, at 9 o'clock, 6", within 8 inch: NO	00:10:02	15247	
	202.70	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:11:47	15248	
	245.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:13:27	15249	
	284.80	Vermin Cockroach, within 8 inch: NO	00:15:04	15250	M 1
	284.80	Manhole, within 8 inch: NO, Remarks: DOWNSTREAM MH, END SURVEY	00:16:00	15251	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	2213	4	7	11	4	1.4	1.83