

GAIL FARBER, Director

## **COUNTY OF LOS ANGELES**

### **DEPARTMENT OF PUBLIC WORKS**

"To Enrich Lives Through Effective and Caring Service"

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> IN REPLY PLEASE REFER TO FILE: SM-1

June 6, 2011

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.

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

### **QUICK MAINTENANCE RATING TABLE**

### 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 place 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.

<u>QU</u>	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					

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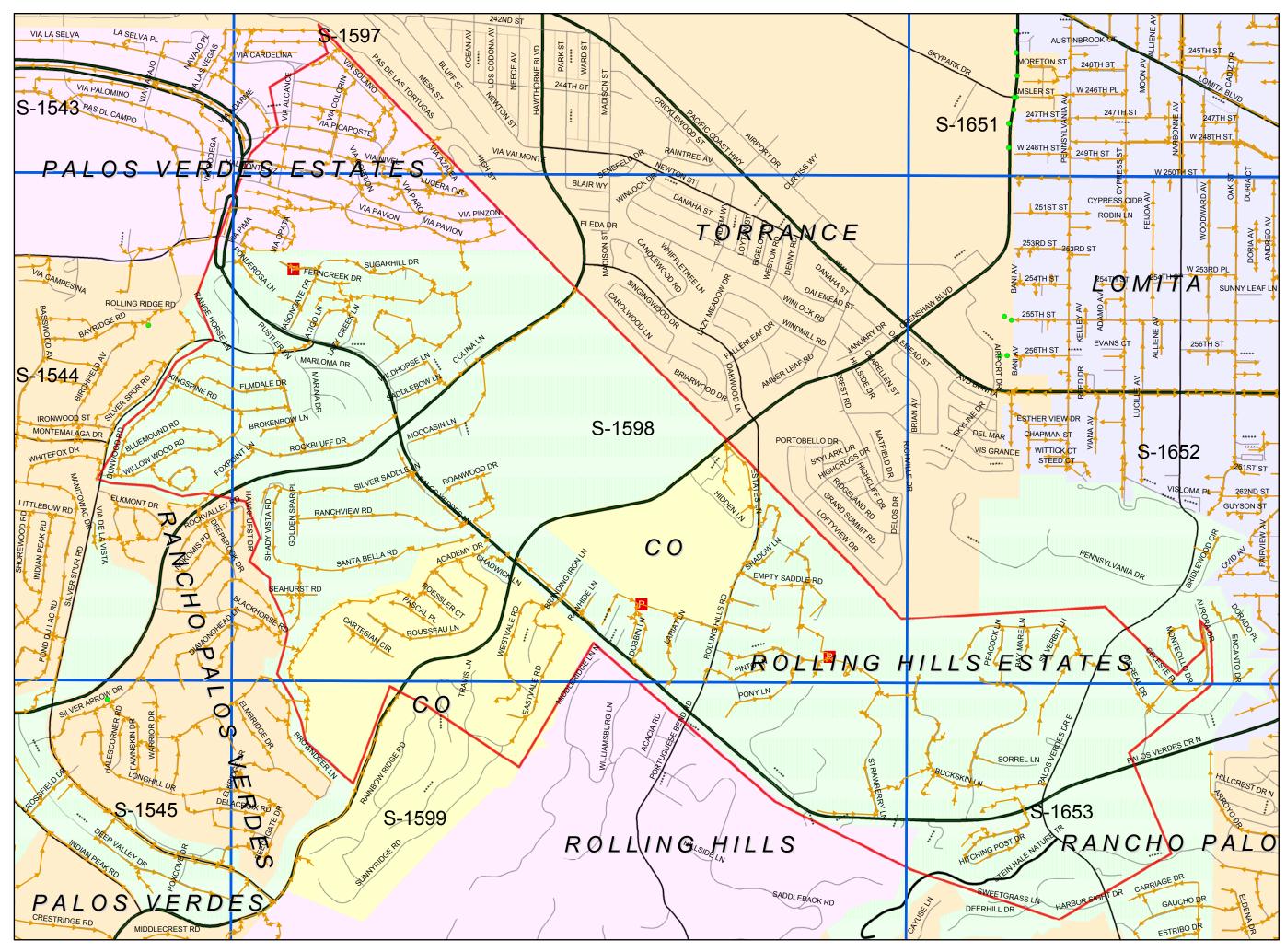
## **FUTURE PROJECTS**

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** 

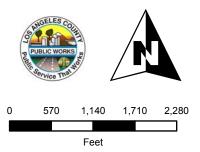


## OVERVIEW MAP CITY OF ROLLING HILLS ESTATES

**CCTV PROJECT** 



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

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## 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

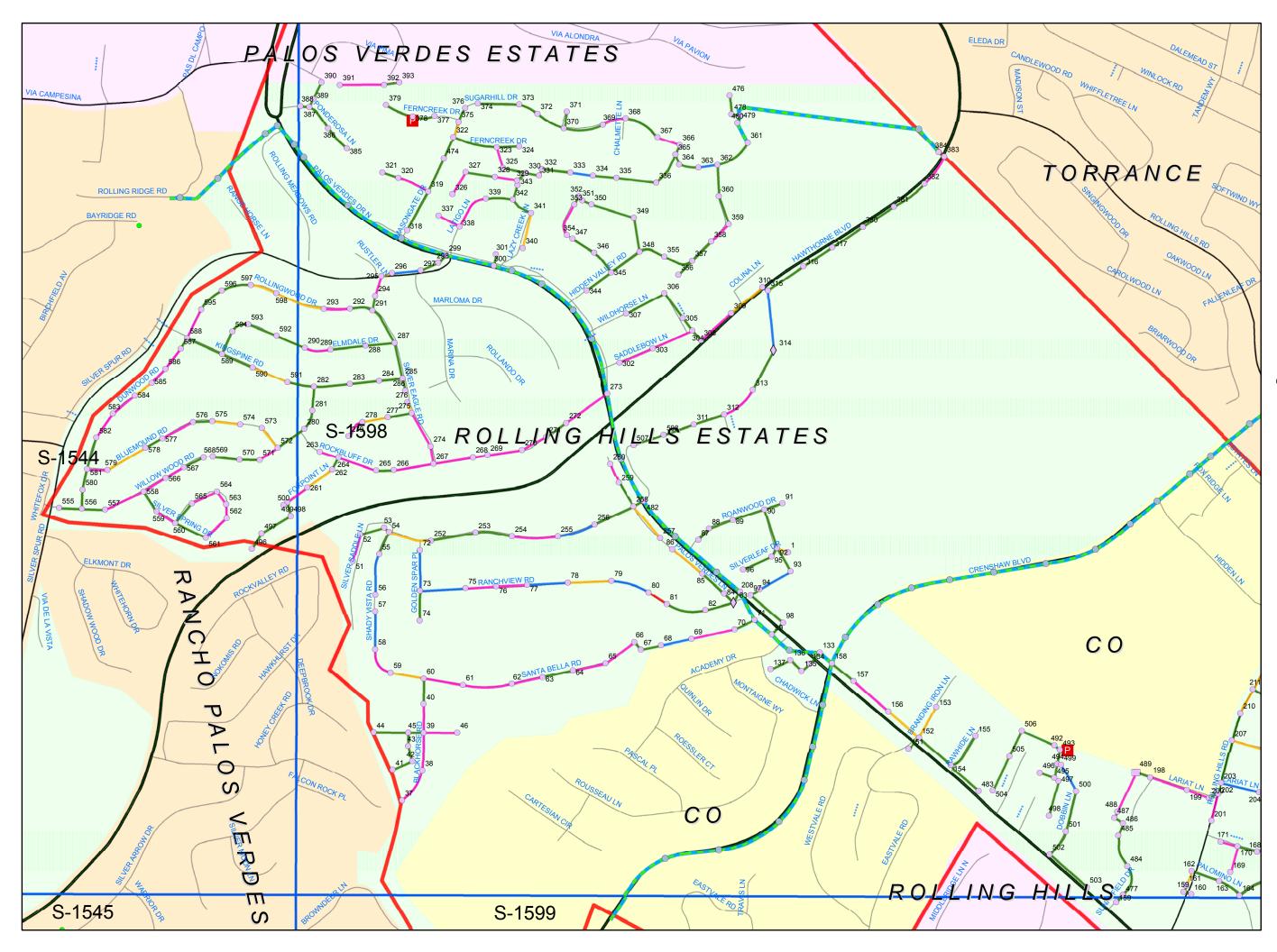
Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5131	1598-0080	1598-0081	RANCHVIEW RD	Root ball lateral	Letter to homeowner
2	5114	1653-0316	1653-0317	Easement by BUCKSKIN & DAPPLEGRAY	Roots; grease at lateral	Rodder (01/18/11) Letter to homeowner
3	5100	1653-0347	1653-0346	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		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		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		SILVERSPRING DR	Root ball lateral	Letter to homeowner
28	4216	1653-0291		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		DUNWOOD RD	Root ball lateral	Letter to homeowner
31	4212	1598-0060		SANTA BELLA RD	Root ball lateral	Letter to homeowner
32	4212	1598-0185		EMPTY SADDLE LN	Grease; root ball lateral	Rodder (01/07/11) Letter to homeowner
33	4211	1598-0051		ALLEY	Roots; root ball lateral	Hydro (02/17/11) Letter to homeowner
34	4211	1598-0198		LARIAT LN	Root ball lateral	Letter to homeowner
35	4211	1598-0302	1598-0303	SADDLEBOW LN	Root ball lateral	Letter to homeowner

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		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		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		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		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		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		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		ROLLINGWOOD DR	Root ball lateral	Letter to homeowner
68	4115	1598-0268		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

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		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

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		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		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		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.

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	Deposit settled	Hydro (02/24/11)
				& DAPPLEGREY		



# ENCLOSURE 2 CCTV PROJECT Y0TV0809D

ROLLING HILLS ESTATES

## QUICK MAINTENANCE RATING (QMR)

2	LIC WORKS	2	R	
	320	640	960	12

Feet

## Legend

# SMD Sanitary Sewers

- \_\_\_\_\_ 2: GOOD
- 3: FAIR
- 4: POOR
- 5: IMMEDIATE ATTENTION

### **SMD Manholes**

Other

#### Manhole Type

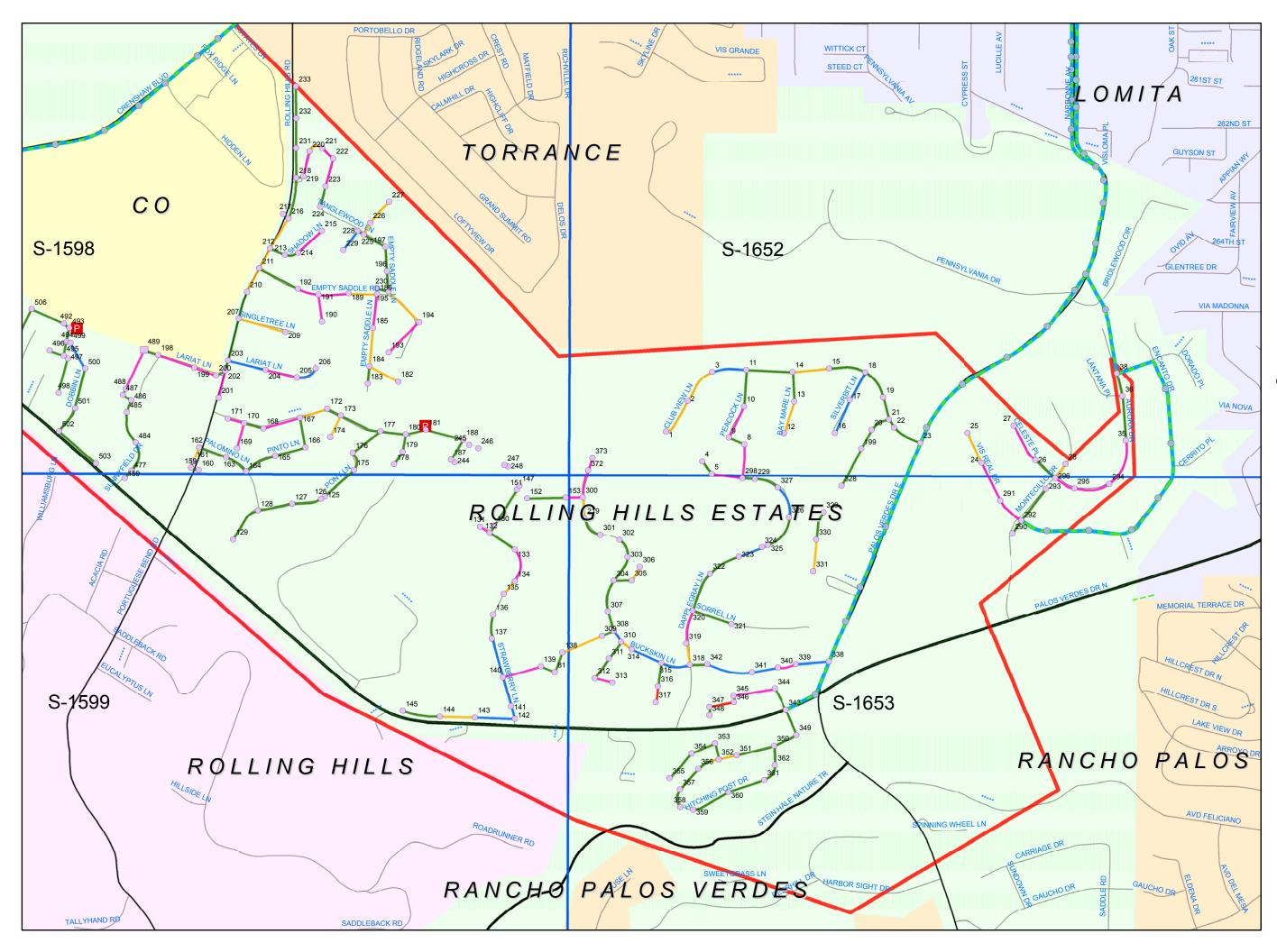
- Standard
- ▲ DROP
- Shallow
- 🔷 Trap
- Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants

#### Maintained by Others:

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

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## MARCH 2011



# ENCLOSURE 2 CCTV PROJECT Y0TV0809D

ROLLING HILLS ESTATES

## QUICK MAINTENANCE RATING (QMR)

7	LIC WORKS	")	Ĺ	R	
	325	650		975	1.300

Feet

## Legend

# SMD Sanitary Sewers

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

### **SMD Manholes**

Other

#### Manhole Type

- Standard
- ▲ DROP
- Shallow
- 🔷 Trap
- Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants

#### Maintained by Others:

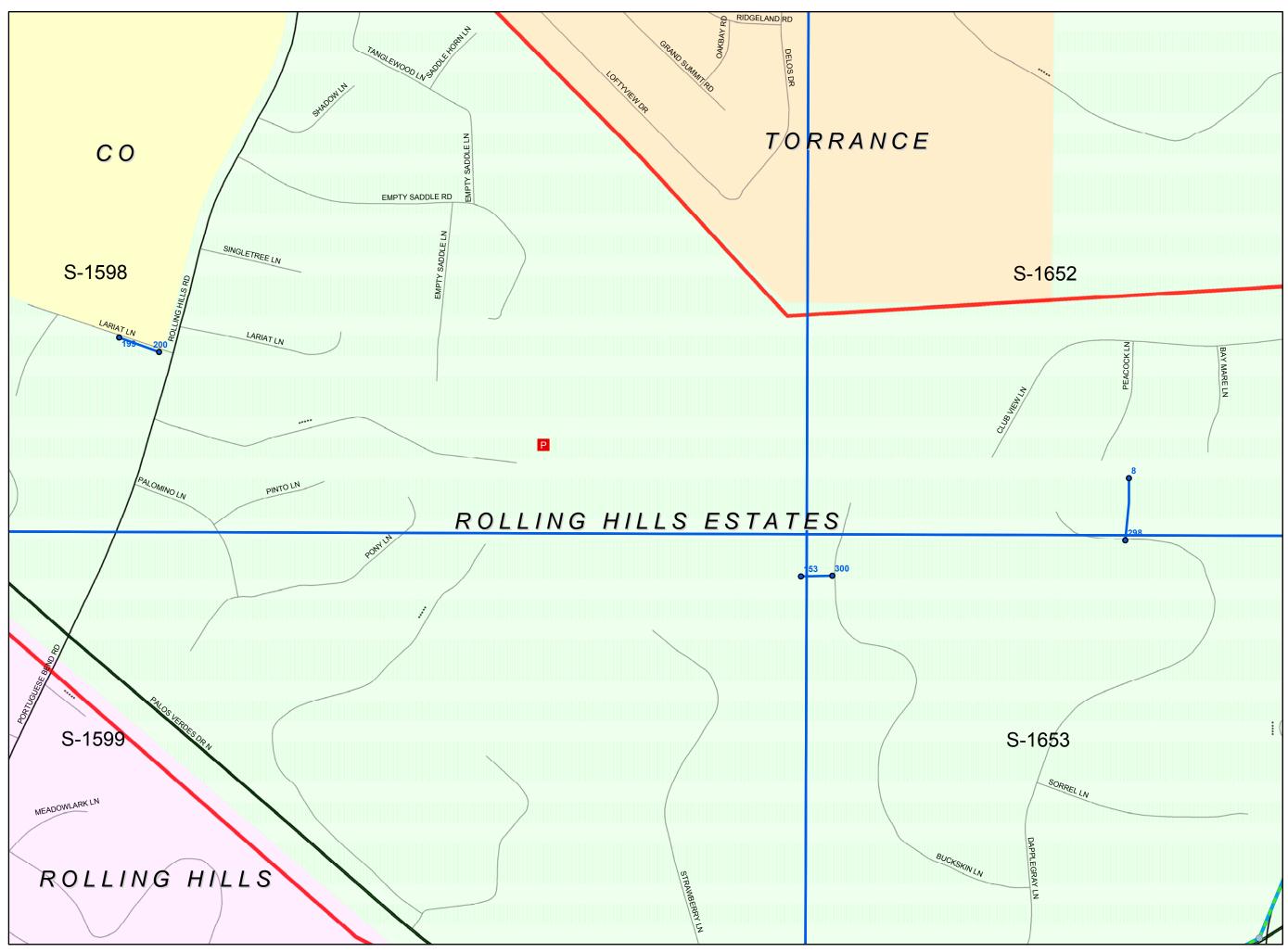
- Trunk Sewerlines
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## MARCH 2011

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

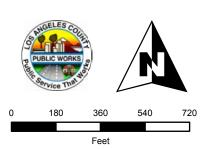
Item No.	QMR	START MH	END MH	STREET	OBSERVATION		SAG (ft)
1	4A32	1653-0300	1599-0153	Easement by BUCKSKIN	Sag	(30% - 80%): Start MH 300 - 40'	40
2	462B	1598-0199	1598-0200	LARIAT LN	Sag	(30% - 80%): 120' - 190'	70
3	443A	1652-0008	1653-0298	Easement by DAPPLEGRAY	Sag	(30% - 80%): 220' - End MH 298	62



# ENCLOSURE 2 CCTV PROJECT Y0TV0809D

## ROLLING HILLS ESTATES

## **HIGH WATER LEVELS**



## Legend

------ High Water Levels

## **SMD Manholes**

Other

### Manhole Type

- Standard
- △ DROP
- Shallow
- ♦ Trap
- ⊗ Siphon
- MH: High Water Levels
- P SMD Pump Stations
- **WTP** SMD Treatment Plants

## Maintained by Others:

- Trunk Sewerlines
- ---- Non SMD Sanitary Sewers

Non SMD Maintained MH

SMD Operations Maps

CCTV PROJECT AREA

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## MARCH 2011



## **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

SM-1

IN REPLY PLEASE

REFER TO FILE:

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 <u>County Code 20.24.080 Maintenance of Sewer Laterals</u>, 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

GAIL FARBER, Director

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:

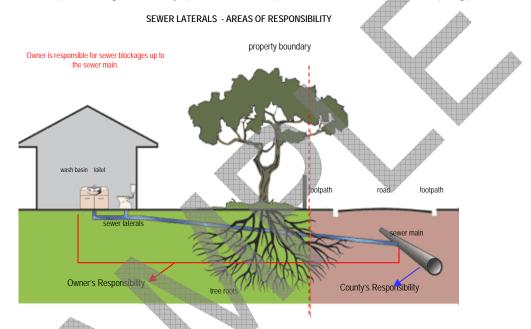
Enc. bc: JW, KL, RS, FV, RH, File (Lateral Notice), SPINDLE

#### 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:

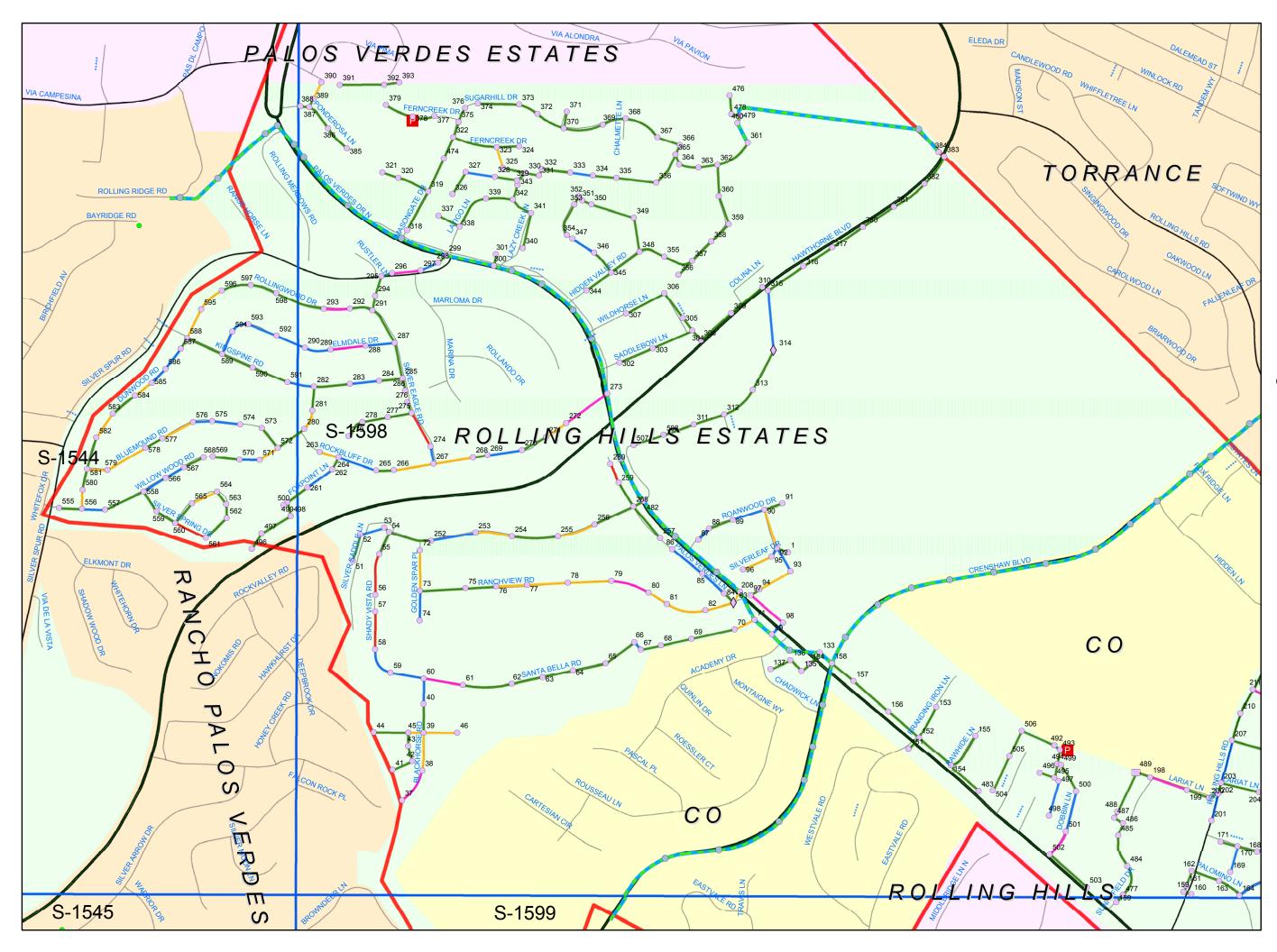
- 1. Maintain your lateral through proper cleaning, repair, and replacement
- 2. Do not place improper items into the sewer or make improper connections to the sewer
  - a. Keep rainwater out of the sewer lines as it overwhelms the capacity of the sewer lines and may cause sewer spills.
  - b. Do not 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

ltem 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 Y0TV0809D

ROLLING HILLS ESTATES

## QUICK STRUCTURAL RATING (QSR)



320 640 960 1,28

## Legend

# SMD Sanitary Sewers

- 1: EXCELLENT
- \_\_\_\_\_ 2: GOOD
- 4: POOR
- 5: IMMEDIATE ATTENTION

## **SMD Manholes**

Other

### Manhole Type

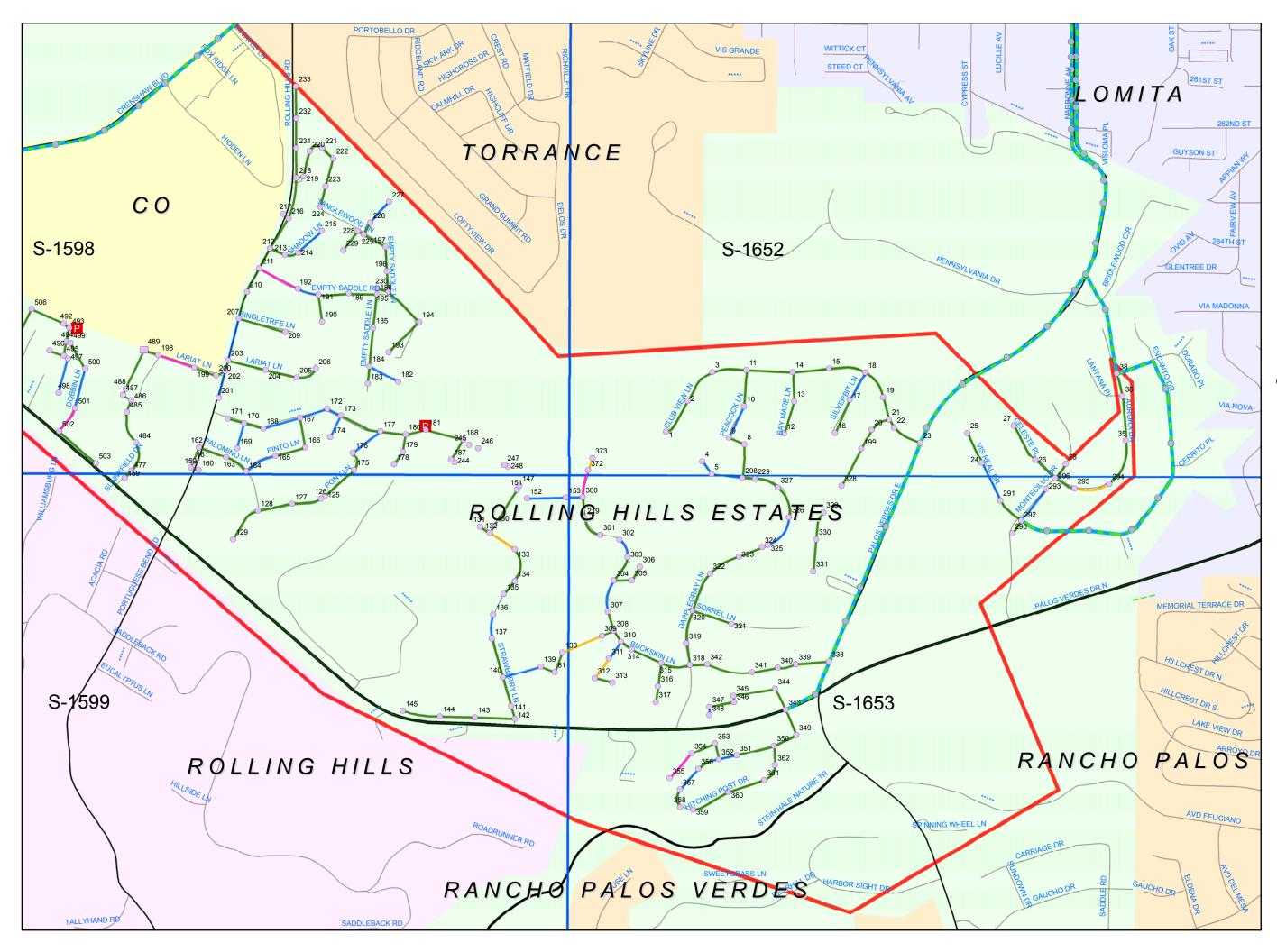
- Standard
- ▲ DROP
- Shallow
- 🔷 Trap
- Siphon
- P SMD Pump Stations
- WTP SMD Treatment Plants

### Maintained by Others:

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

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## MARCH 2011



# ENCLOSURE 3 CCTV PROJECT Y0TV0809D

ROLLING HILLS ESTATES

## QUICK STRUCTURAL RATING (QSR)



C	325	650	975	1,300
		Foot		

## Legend

# SMD Sanitary Sewers

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

## **SMD Manholes**

Other

## Manhole Type

- Standard
- △ DROP
- Shallow
- 🔷 Trap
- Siphon
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## MARCH 2011

# ENCLOSURE 4:

Infrastructure Inspection Reports for Grades 4 and 5



				tion report				
Date: 20090505		O.#: /0809D	Weather: <b>Dry</b>	Surveyed By Gilbert Contre		number: 06	PSF 723	
Total Pipe Leng 159.00		Customer: CDPW	System Owner: RHE	Clean Date: 05/04/2009		Cleaned: Map Grid etting 1598		
treet: P	ALOS VERDES DR N	NO.	Flow Control:	lot Controlled	Start MH:	1598-02	60	
ty: RI	HE		Year Renewed		End MH:	1598-02	59	
cation Code: Li	ght Highway		Tape/Media #:	<b>3</b> 312-003	pipe length	: 237.1 ft		
ason for inspec	ction: Routine As	ssessment		U U	ircular 8"/8"			
e of Sewer:	Sanitary			Material: V Lining Method:	itrified Clay Pipe Pi	pe Length:		
ain. Area:	0259/1598-	-0260/1598		Category:				
emark::								
1:600	position	obse	ervation			MPEG	photo	grad
	4.00 5.00 19.60	Wate	s Medium Lateral, at 3 of er Level, 5 %, within 8 in Factory Active, at 3 o'clo	ch: NO		00:01:22 00:01:54 00:02:34	456 457 458	Μ3
	180.10 / 181.30	Тар	s Fine Joint, from 7 to 5 Factory Active, at 3 o'clo	ock, 6", within 8 inch: NC		00:06:44 00:07:12	459, b 461	M 1
	181.30	Root	s Fine Lateral, at 3 o'clo	ck, within 8 inch: NO		00:07:27	462	M 1
	194.00		ture Multiple, from 7 to 6			00:08:31	463, b	S 4
	194.00	Root	s Fine Barrel, from 7 to	6 o'clock, within 8 inch:	NO	00:08:56	465, b	M 2
	194.40	Brok	en, from 10 to 2 o'clock,	within 8 inch: NO		00:09:50	467, b	S 5
	194.40	Defo	rmed, 10 %, within 8 inc	h: NO		00:10:21	469, b	S 4
	197.00	Brok	en Soil Visible, from 7 to	5 o'clock, within 8 inch	: YES	00:12:02	471, b	S 5
	197.00	Root	s Medium Barrel, from 7	' to 10 o'clock, 30 %, wit	thin 8 inch: NO	00:12:52	473, b	M 4
	197.00	Fract	ture Multiple, from 7 to 5	o'clock, within 8 inch: א	′ES	00:13:11	475, b	S 4
1598-0259	200.20	Root	s Fine Joint, from 7 to 1	0 o'clock, within 8 inch:	YES	00:14:59	478, b	M 1
	237.10	Mant	hole, 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



Tal

				Insport	ion report	Tel: (505	) 341.0109, Fax	: (505) 341.013	33
	Date:	P.0	.#:	Weather:	Surveyed By:	section nu	mber:	PSF	र:
<b>T</b>	20090504	YOTVO	809D	Dry	Gilbert Contreras	899		726	21
10	tal Pipe Length 329.00	: Survey Cu LACE		System Owner: RHE	Clean Date: 05/01/2009	Pre-Clea Jettin		Map G 159	
stree	t: SHA	DY VISTA RD		Flow Control: N	ot Controlled	Start MH:	1598-00	55	
ity:	RHE			Year Renewed		End MH:	1598-00	56	
ocat	tion Code: Ligh	t Highway		Tape/Media #: G	312-002	pipe length:	313.8 ft		
	on for inspectio		essment		•	ular 8"/8" fied Clay Pipe Pipe	Lenath:		
	of Sewer:	Sanitary	050/4500		Lining Method:		_0g		
	ark::	0055/1598-0	030/1598		Category:				
	1:775	position	obse	ervation			MPEG	photo	grade
		5.00		er Level, 5 %, within 8 inc	h: NO o'clock, within 8 inch: YES		00:01:12 00:01:44	362 363, b	M 1
		86.30	Тар	Factory Active, at 3 o'clo	ck, 6", within 8 inch: NO		00:03:53	365	
		92.40	Тар	Factory Active, at 9 o'cloo	ck, 6", within 8 inch: NO		00:04:27	366	
		140.00	Тар	Factory Active, at 9 o'clo	ck, 6", within 8 inch: NO		00:05:37	367	
		153.30	Тар	Factory Active, at 3 o'cloo	ck, 6", within 8 inch: NO		00:06:04	368	
		200.80	Тар	Factory Active, at 9 o'cloo	ck, 6", within 8 inch: NO		00:07:13	369	
		233.20	Root	ts Fine Joint, from 7 to 5	o'clock, within 8 inch: YES		00:08:27	370, b	M 1
		233.20	Crac	k Multiple, from 7 to 10 o	clock, within 8 inch: YES		00:08:51	372, b	S 3
		311.40	Obs	tacle Pipe Material, from	5 to 7 o'clock, 10 %, withir	8 inch: NO	00:11:18	374, b	M 2
		312.90	Crac	k Multiple, from 7 to 5 o'c	clock, within 8 inch: YES		00:12:05	376, b	S 3
		312.90	Root	ts Fine Joint, from 7 to 5	o'clock, within 8 inch: YES		00:12:18	378, b	M 1
		313.80	Тар	Break-in Defective, at 3 c	clock, 6", 2, within 8 inch	NO	00:13:25	380, b	М 3
		313.80	Brok	en Soil Visible, from 7 to	6 o'clock, within 8 inch: N	0	00:13:53	382, b	S 5
		313.80	Obst	tacle Pipe Material, from	4 to 8 o'clock, 25 %, withir	8 inch: NO	00:14:20	384, b	M 4
		313.80	Abai	ndoned Survey, within 8 i	nch: NO, Remarks: Comp	letes inspection of e	00:15:14	386	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	5132	4131	11	12	23	3.67	2	1	2.56

1	-	
W		τ.U

WinCan America, Inc. 1730 Montano Road NE, Suite E Albuquerque, NM 87107

				Inspect	tion report		5) 341.0109, Fax	× /	
	Date: 20090504	P.O.#: <b>Y0TV0809</b>	D	■ Weather: <b>Dry</b>	Surveyed By: Gilbert Contreras	section nu 898		PSF 7262	
To	tal Pipe Length: 329.00	Survey Custo LACDPV		System Owner: RHE	Clean Date: 05/01/2009	Pre-Clea Jettir		Map Gi <b>159</b>	
	RHE ion Code: Light		Ye Ta	ear Renewed	lot Controlled	Start MH: End MH: pipe length:	1598-00 1598-00 6.8 ft		
se o	on for inspection if Sewer: . Area: ırk::	E Routine Assess Sanitary 0055/1598-0056				ular 8"/8" fied Clay Pipe Pipe	e Length:		
	1:25	position	observa	tion			MPEG	photo	grade
	1598-0056	0.00	Manhole	, within 8 inch: NO, F	Remarks: 1598-0056		00:00:31	351	
		3.00	Tap Fac	ory Active, at 9 o'clo	ck, 6", within 8 inch: NO		00:01:03	352	
		5.00 5.00 <b>S1</b>		evel, 10 %, within 8 in Pipe Material, from	nch: NO 5 to 7 o'clock, 10 %, within	8 inch: NO,	00:02:24 00:03:11	353 354, b	M 2
		6.70 F1 6.80 6.80	Obstacle Remarks Broken S	: Pieces of broken p Soil Visible, from 7 to	5 to 7 o'clock, 10 %, within	ES	00:07:44 00:06:02 00:07:19	356 357, b 360	M 2 S 5
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI



## **Inspection report**

					inspectio	on report					
	Date: 20090430		P.O.#: <b>V0809D</b>		Weather: Dry	Surveyed By: Rigo Alvarez		section n 156		PSF 7688	
Т	otal Pipe Leng 264.00		Customer:	:	System Owner: RHE	Clean Date:		Pre-Cle <b>Jetti</b>		Map Gi <b>154</b>	
Stre City	: RH			Year	Renewed	Controlled		Start MH: End MH:	1544-05		
	ation Code: Lig			Таре	e/Media #: <b>R06</b>			pipe length:	250.7 ft		
	ison for inspect		Assessment			, e	rcular trified	8"/8" Clay Pipe Pipe	e Lenath:		
	of Sewer:	Sanitary				Lining Method:			g		
	in. Area: nark::	0560/154	4-0561/1544			Category:					
Rei	lidik										
	1:625	position	obse	ervatio	n				MPEG	photo	grade
		0.00	Man	hole, w	<i>v</i> ithin 8 inch: NO, Ren	narks: 1544-0561			00:00:19	7425	
		6.60	Тар	Factor	y Active, at 9 o'clock,	6", within 8 inch: NC	)		00:01:30	7426	
	1544-0561	6.60	Roo	s Fine	Connection, at 9 o'cl	ock, within 8 inch: N	С		00:01:41	7427, b	M 1
		7.90	Wat	er Leve	el, 5 %, within 8 inch:	NO			00:02:05	7429	
		11.10	Gen	eral Ob	oservation, within 8 in	ch: NO, Remarks: Pi	pe joint	t Length 3'	00:02:26	7430	
		52.30	Roo	s Fine	Joint, at 3 o'clock, wi	thin 8 inch: YES			00:03:37	7431, b	M 1
		74.00	Тар	Factor	y Active, at 9 o'clock,	6", within 8 inch: NO	)		00:05:05	7433	
		89.90	Тар	Factor	y Active, at 3 o'clock,	6", within 8 inch: NO	)		00:05:46	7434	
		114.60 <b>S1</b>			Joint, from 4 to 9 o'c			ırt	00:06:38	7435, b	M 1
		121.50 <b>F1</b>			Joint, from 4 to 9 o'c				00:07:08	7437, b	M 1
8		122.90	Тар	Factor	y Active, at 9 o'clock,	6", within 8 inch: NO			00:08:04	7439	
<b>《</b>		122.90	Roo	s Fine	Lateral, at 9 o'clock,	within 8 inch: NO			00:08:18	7440, b	M 1
<b>%</b>		137.40	Roo	s Fine	Joint, from 8 to 4 o'c	lock, within 8 inch: Yl	ES		00:09:02	7442, b	M 1
Ť		137.40	Crac	k Circu	umferential, from 2 to	4 o'clock, within 8 in	ch: YES	S	00:09:17	7444, b	S 1
		167.90	Roo	s Fine	Joint, from 3 to 8 o'c	lock, within 8 inch: Yl	ES		00:10:38	7446, b	M 1
		174.90	Crac	k Circu	umferential, from 7 to	10 o'clock, within 8 i	nch: YE	ES	00:11:14	7448, b	S 1
		177.90	Roo	s Fine	Joint, at 4 o'clock, wi	thin 8 inch: YES			00:11:48	7450, b	M 1
		183.00	Тар	Factor	y Active, at 9 o'clock,	6", within 8 inch: NC	)		00:12:22	7452	
		197.50 <b>S2</b>	Roo	s Fine	Joint, at 3 o'clock, wi	thin 8 inch: YES, Sta	irt		00:13:01	7453, b	M 1
		198.90	Тар	Factor	y Active, at 3 o'clock,	6", within 8 inch: NC	)		00:13:40	7455	
		200.60 F2	Roo	s Fine	Joint, at 3 o'clock, wi	thin 8 inch: YES, End	d		00:13:55	7456, b	M 1
		234.00	Roo	s Fine	Joint, from 7 to 9 o'c	lock, within 8 inch: Yl	ES		00:15:13	7458, b	M 1
	1544-0560	250.70	Hole Cha		isible, from 7 to 8 o'c	lock, within 8 inch: N	O, Rem	narks: MH	00:16:44	7460, b	S 5
		250.70			/ithin 8 inch: NO, Ren	narks: 1544-0560			00:17:27	7462	
	QSR	QMR	SPR 7		MPR	OPR		SPRI	MPRI 1		OPRI
	5112	1A00	1			17		2.33	1		1.31



VVIII V	~					4100querque, Ni 05) 341.0109, Fax		3
			Inspecti	on report				
Da <sup>.</sup> 2009		P.O.#: <b>Y0TV0809D</b>	Weather: <b>Dry</b>	Surveyed By: Rigo Alvarez			PSF 7238	
Total Pipe 302	e Length: S	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Cle Jett	eaned:	Map Gr 159	id #:
treet:	SILVER EAGLE	RD	Flow Control: Not	t Controlled	Start MH:	1598-02	75	
ity:	RHE		Year Renewed		End MH:	1598-02	74	
ocation Co	de: Light Highway		Tape/Media #: R06	69	pipe length:	219 ft		
eason for i	nspection: Rou	itine Assessment			rcular 8"/8" trified Clay Pipe Pip	o Longth:		
se of Sewe		itary		Lining Method:		e Lengui.		
rain. Area:	027	4/1598-0275/1598		Category:				
emark::								
1:5	50 positior	n obse	ervation			MPEG	photo	grade
1598-0	0275 0.00 5.00 8.30 19.70 41.80		hole, within 8 inch: NO, Re er Level, 5 %, within 8 inch eral Observation, within 8 i Factory Active, at 3 o'clock ck Circumferential, from 3 to	: NO nch: NO, Remarks: Pi :, 6", within 8 inch: NO	1	00:00:29 00:01:09 00:01:35 00:02:03 00:02:51	8465 8466 8467 8468 8469, b	S 1
	72.20	-	ts Fine Joint, at 9 o'clock, v ts Fine Joint, at 9 o'clock, v			00:03:53 00:04:21	8471, b 8473, b	M 1 M 1
	77.10	<u>)</u> Tap	Factory Active, at 9 o'clock	a, 6", within 8 inch: NO	1	00:04:55	8475	
	77.10	<u>)</u> Roo	ts Ball Connection, at 9 o'c	lock, 70 %, within 8 in	ch: NO	00:05:08	8476, b	M 4
	91.80	<u>)</u> Roo	ts Fine Joint, from 9 to 3 o'	clock, within 8 inch: YI	ES	00:05:57	8478, b	M 1
	119.00	) Roo	ts Fine Joint, from 11 to 3 c	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	<u>)</u> Tap	Factory Active, at 9 o'clock	, 6", within 8 inch: NO	,	00:08:18	8483	
1598-0	219.00 219.00 219.00	Cha	Soil Visible, from 4 to 8 o'n nnel hole, within 8 inch: NO, Re		O, Remarks: Mh	00:10:43 00:11:37	8484, b 8486	S 5
QSR	QMR		MPR	OPR	SPRI	MPRI		
5111	4113	6	7 0800D 400%/WinCont	13	3	1.75		2.17



WinCan America, Inc.

1730 Montano Road NE, Suite E Albuquerque, NM 87107 Fel: (505) 341 0109, Fax: (505) 341 0133

				Inspect	ion report	Tel: (5	05) 341.0109, Fax	: (505) 341.013	33
	Date:	P.O.#	:	Weather:	Surveyed By:	section	number:	PSF	R:
То	20090529 otal Pipe Length:	Y0TV080 Survey Cus		Dry System Owner:	Gilbert Contrer Clean Date:	as 11 Pre-Cl	04	7262 Map G	
10	299.00	LACDP		RHE	05/29/2009		ting	159	
Stree	et: SHAD	Y VISTA RD		Flow Control: No	ot Controlled	Start MH:	1598-00	58	
City:	RHE			Year Renewed		End MH:	1598-00	57	
Locat	tion Code: Light	Highway		Tape/Media #: G3	312-018	pipe length:	42.4 ft		
	son for inspection		ssment		-	rcular 8"/8" trified Clay Pipe Pip	e Length:		
	of Sewer:	Sanitary			Lining Method:	unieu olay ripe riņ	Je Lengui.		
	n. Area:	0057/1598-005	58/1598		Category:				
Reina	di K								
	1:125	position	obser	vation			MPEG	photo	grade
	1598-0058	0.00	Manh	ole, within 8 inch: NO, R	emarks: 1598-0058		00:00:39	4028	
		5.00	Water	Level, 5 %, within 8 incl	n: NO		00:01:14	4029	
		5.20	Tap F	actory Active, at 3 o'cloc	k, 6", within 8 inch: NO	1	00:01:28	4030	
		42.40	Tap F	actory Active, at 9 o'cloc	k, 6", within 8 inch: NO		00:03:01	4031	
		42.40	-	Medium Lateral, at 9 o'o			00:03:13	4032	
		、 <u> </u>		n Soil Visible, from 12 to			00:04:01	4033, b	
		42.40		loned Survey, within 8 ir				4033, b 4036	
	QSR	QMR	SPR	MPR	OPR	SPRI	MPRI		OPRI
	0000	0000	0	0	0	0	0		0



			Inspect	tion report				
:	Date: 20090506	P.O.#: <b>Y0TV0809D</b>	Weather: Dry	Surveyed By: Gilbert Contreras	section nun 922	nber:	PSF 7262	
Tota	I Pipe Length: 299.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date: 05/06/2009	Pre-Clean Jetting		Map G 159	
treet:	SHADY	VISTA RD	Flow Control:	Not Controlled	Start MH:	1598-005	57	
ty:	RHE		Year Renewed		End MH:	1598-005	58	
ocatio	n Code: Light H	ighway	Tape/Media #: 0	G312-004	pipe length:	311.8 ft		
easor	n for inspection:	Routine Assessmen	t	Dia/Height: Circula				
se of	Sewer:	Sanitary		Material: Vitrified	d Clay Pipe Pipe L	ength:		
ain. /	Area:	0057/1598-0058/1598	3	Category:				
emar	k::							
	1:775	position	observation			MPEG	photo	grade
1	1598-0057 2.00 4.80 4.80 5.00 83.30 89.30	4.80 I 5.00 V 83.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO Roots Fine Barrel, from 3 to 6 o'clock, within 8 inch: NO Water Level, 5 %, within 8 inch: NO Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO				812 813, b 815 816 817	Μ2
		240.40	Tap Factory Active, at 9 o'clo Tap Factory Active, at 3 o'clo Roots Fine Joint, from 1 to 5	ock, 6", within 8 inch: NO		00:8:10 00:09:01 00:10:22	818 819 820, b	M 1
		, <u>311.40</u> I	Fracture Multiple, from 7 to 5	5 o'clock, within 8 inch: YES		00:11:56	822, b	S 4
		<u>311.40</u> I	Hole Void Visible, from 4 to 8	8 o'clock, within 8 inch: YES		00:12:15	824, b	S 5
		<u>311.50</u> I	Hole Soil Visible, from 8 to 1	0 o'clock, within 8 inch: YES		00:12:51	826, b	S 5
		311.80	Tap Factory Active, at 3 o'clo	ock, 6", within 8 inch: NO		00:13:58	828	
		311.80	Roots Tap Lateral, at 3 o'clo	ck, 15 %, within 8 inch: NO		00:14:13	829	M 2
		311.80	Abandoned Survey, within 8	inch: NO, Remarks: Camera b	locked by hole in	00:14:36	830	
	QSR	QMR S	PR MPR	OPR	SPRI	MPRI		OPRI
		U				an i M		



				Inspec	tion report				
	Date: 20090506		.O.#: V0809D	Weather: Dry	Surveyed By: Gilbert Contreras	section nur 925	nber:	PSI 726	
Т	otal Pipe Lengt 296.00		Customer: CDPW	System Owner: RHE	Clean Date: 05/06/2009	Pre-Clear Jetting		Map G 159	
stre	et: SH	ADY VISTA RD		Flow Control:	Not Controlled	Start MH:	1598-003	37	
ity:	RH	E		Year Renewed		End MH:	1598-003	38	
002	ation Code: Lig	ht Highway		Tape/Media #:	G312-004	pipe length:	293.6 ft		
Rea	son for inspect	ion: Routine A	ssessment	•	, e	ar 8"/8"			
lse	of Sewer:	Sanitary			Material: Vitrifie Lining Method:	ed Clay Pipe Pipe I	Length:		
rai	n. Area:	0037/1598	8-0038/1598		Category:				
Rem	nark::								
	1:725	position	obs	ervation			MPEG	photo	grade
		0.00 S1 2.00 2.00 3.00 5.00 32.90 32.90 125.50 F1 133.70 146.80 146.80 193.60	Craa Roo Wat Tap Roo Tap Tap	ts Ball Lateral, at 3 o'cloc er Level, 5 %, within 8 in Break-in Active, at 3 o'cl ts Fine Connection, from ts Fine Joint, from 7 to 5 Factory Active, at 3 o'cl Factory Active, at 9 o'cl	4 to 5 o'clock, within 8 inch: N ck, 55 %, within 8 inch: NO ch: NO lock, 6", within 8 inch: NO a 3 to 6 o'clock, within 8 inch: NO o'clock, within 8 inch: YES, F ock, 6", within 8 inch: NO ock, 6", within 8 inch: NO ock, 6", within 8 inch: NO	NO End	00:01:59 00:02:20 00:03:01 00:03:33 00:04:28 00:04:45 00:07:03 00:07:28 00:07:28 00:08:02 00:08:20	896, b 898, b 900, b 902 903 904 905, b 907 908 909 910 911, b	S 4 S 1 M 4 M 1 M 1 M 3 S 4
		193.60			0 o'clock, within 8 inch: YES		00:09:46	913, b	M 1
		291.60			ock, 6", within 8 inch: NO		00:12:05	915	
		291.60	Roo	ts Fine Lateral, at 3 o'clo	ock, within 8 inch: NO		00:12:16	916	M 1
	1598-0038	292.10	Roo	ts Fine Barrel, from 4 to	6 o'clock, within 8 inch: NO		00:13:02	917, b	M 2
	1,990-0030	293.60	Mar	hole, 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



			Inspectio	on report		341.0109, Fax.	(000) 0111010	<u> </u>
Date: 20090505 Total Pipe Length: 318.00		P.O.#: <b>Y0TV0809D</b>	Weather: Dry System Owner: RHE	Surveyed By: Gilbert Contreras Clean Date: 05/05/2009	section number: 914 Pre-Cleaned: Jetting		PSR: 72643 Map Grid #: 1598	
		Survey Customer: LACDPW						
Street: RANCHVIEW RD			Flow Control: Not Controlled Start MH:		Start MH:	1598-007	9	
City:	RHE		Year Renewed		End MH:	1598-008	0	
Location Code: Light Highway			Tape/Media #: G31	2-003	pipe length:	261.7 ft		
Reason for ir	nspection:	Routine Assessment		Dia/Height: Circular				
Use of Sewer: Sanitary				Material: Vitrified ( Lining Method:	Clay Pipe Pipe L	ength:		
Drain. Area: 0079/1598-0080/15				Category:				
Remark::								
1:20	64 po	osition o	bservation			MPEG	photo	grade
	~	<u>0.00</u> N	anhole, within 8 inch: NO, Rer	narks: 1598-0079		00:00:58	605	
	_ / _	<u>3.50</u> C	rack Circumferential, from 7 to	5 o'clock, within 8 inch: YES	3	00:01:32	606, b	S 1
1598-0	1598-0079 5.00 Water Level, 10 %, within 8 inch: NO					00:02:16	608	
		<u>6.20</u> C	rack Multiple, from 7 to 5 o'clo	ck, within 8 inch: YES		00:02:59	609, b	S 3
_		<u>6.20</u> F	Roots Fine Joint, from 7 to 5 o'clock, within 8 inch: YES			00:03:12	611, b	M 1
	$\parallel \sim \sim$	<u>9.00</u> C	Crack Multiple, from 7 to 5 o'clock, within 8 inch: YES			00:03:51	613, b	S 3
		<u>9.00</u> F	oots Fine Joint, from 7 to 5 o'c	lock, within 8 inch: YES		00:04:25	615, b	M 1
	$  \setminus   \setminus$	<u>10.10</u> T	ap Factory Active, at 9 o'clock,	, 6", within 8 inch: NO		00:04:49	617	
	$  \setminus \setminus$	<u>10.10</u> F	oots Fine Connection, from 6 t	to 9 o'clock, within 8 inch: NC	)	00:05:03	618, b	M 1
,,,,,	$\land \land$	20.80 Roots Fine Joint, from 2 to 5 o'clock, within 8 inch: YES				00:06:24	620, b	M 1
<b>S</b>	$  \setminus \setminus$	<u>33.10</u> C	rack Circumferential, from 2 to	5 o'clock, within 8 inch: YES	3	00:07:44	623, b	S 1
		<u>36.10</u> F	oots Fine Joint, from 3 to 8 o'c	lock, within 8 inch: YES		00:09:44	625, b	M 1
≪ ⊤		<u>49.60</u> T	ap Factory Active, at 3 o'clock,	, 6", within 8 inch: NO		00:10:23	627	
		<u>60.40</u> C	rack Circumferential, from 10	to 3 o'clock, within 8 inch: YE	S	00:11:47	628, b	S 1
	$\leq$	<u>60.40</u> F	oots Fine Joint, from 3 to 9 o'c	lock, within 8 inch: YES		00:12:03	630, b	M 1
		<u>69.20</u> F	oots Fine Joint, from 7 to 5 o'c	lock, within 8 inch: YES		00:13:03	632	M 1
		<u>69.40</u> F	racture Multiple, from 7 to 5 o'	clock, within 8 inch: YES		00:13:38	633	S 4
	$\mathbb{N}/\mathbb{N}$	<u>69.50</u> F	oots Fine Joint, from 7 to 5 o'c	lock, within 8 inch: YES		00:14:23	634, b	M 1
	/ /	<u>70.70</u> T	ap Factory Active, at 9 o'clock,	, 6", within 8 inch: NO		00:15:12	636	
-	$\wedge / \land$	75.20	rack Multiple, from 7 to 5 o'clo	ck, within 8 inch: YES		00:16:04	637, b	S 3
	$  \rangle / /$	75.20 F	oots Fine Joint, from 7 to 5 o'c	lock, within 8 inch: YES		00:16:21	639, b	M 1
	/	84.60 F	oots Fine Joint, from 7 to 10 o	'clock, within 8 inch: YES		00:17:08	641, b	M 1
	$  \rangle / \langle$	87.50 F	racture Circumferential, from 9	to 11 o'clock, within 8 inch:	YES	00:18:39	644, b	S 2
		87.50 F	oots Fine Joint, from 7 to 5 o'c	lock, within 8 inch: YES		00:19:06	646, b	M 1

## **Inspection report**

117/1

Date: 20090505	P.C <b>Y0TV0</b>		Weather: <b>Dry</b>	Surveyed By: Gilbert Contreras	section number: <b>914</b>	PSF 7264	
Total Pipe Length 318.00		ustomer:	System Owner: RHE	Clean Date: 05/05/2009	Pre-Cleaned: Jetting	Map G 159	rid #:
1:264	position	obser	vation		MPEG	photo	grade
_	110.50	Tap Fa	actory Active, at 3 o'clock	s, 6", within 8 inch: NO	00:20:02	648	
	114.90 <b>S1</b>	Crack	Multiple, from 7 to 5 o'clo	ock, within 8 inch: YES, Start	00:20:50	649, b	S 3
	114.90 <b>S2</b>	Roots	Fine Joint, from 7 to 5 o'	clock, within 8 inch: YES, Sta	rt 00:21:07	651, b	M 1
	183.70 194.10 <b>F2</b>		actory Active, at 9 o'clock Fine Joint, from 7 to 5 o'	c, 6", within 8 inch: NO clock, within 8 inch: YES, End	00:24:23	653 654	M 1
+	205.00	Tap Fa	actory Active, at 3 o'clocł	s, 6", within 8 inch: NO	00:25:30	655	
1598,0080	252.40 256.60 258.20 258.20 261.70	Tap Fa <mark>Crack</mark> Joint C	actory Active, at 9 o'clock Multiple, from 7 to 5 o'clo Offset Medium, within 8 ir	ock, within 8 inch: YES, End	00:27:41 00:28:10 00:28:27 00:28:53 00:29:55	656, b 658 659 660, b 662, b	M 1 S 3 S 1 M 2
1598-0080	261.70		ble, within 8 inch: NO, Re		00:30:15	664	
QSR	QMR	SPR	MPR	OPR	SPRI MPRI		OPRI



**Inspection report** Date: P.O.#: Weather: Surveyed By section number: PSR: 20090527 Y0TV0809D **Rigo Alvarez** 72526 Dry 1796 Total Pipe Length: Survey Customer: System Owner: Clean Date: Pre-Cleaned: Map Grid #: LÁCDPW RHE 1598 349.00 Jetting Street: EMPTY SADDLE DR Flow Control: Not Controlled Start MH: 1598-0192 RHE Year Renewed End MH: 1598-0211 City: Location Code: Light Highway Tape/Media #: R082 pipe length: 324.2 ft Reason for inspection: **Routine Assessment** Dia/Height: Circular 8"/8" Material: Vitrified Clay Pipe Pipe Length: Use of Sewer: Sanitary Lining Method: Drain. Area: 0192/1598-0211/1598 Category: Remark:: 1:800 MPEG position observation photo grade 0.00 Manhole, within 8 inch: NO, Remarks: 1598-0192 00:00:29 11501 1598-0192 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' 00.01.51 11503 29.50 Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO 00:02:03 11504 Tap Factory Capped, at 3 o'clock, 6", within 8 inch: NO 32.10 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 00.03.28 60.30 Tap Factory Capped, at 9 o'clock, 6", within 8 inch: NO 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 12.40 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 S 3 Fracture Longitudinal, at 9 o'clock, within 8 inch: YES 00.10.20 11525, b 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 Roots Fine Joint, from 9 to 2 o'clock, within 8 inch: YES 322.70 00:17:27 11532. b M 1 1598-021 324.20 Manhole, within 8 inch: NO, Remarks: 1598-0211 00:18:07 11534 OSR OMR SPR MPR OPR SPRI MPRI OPRI 4133 1100 25 2.08 1 26 1 2



Date:

20090518

Total Pipe Length:

336.00

Reason for inspection:

RHE

Location Code: Light Highway

Street:

City:

P.O.#:

Y0TV0809D

Survey Customer:

LÁCDPW

**Routine Assessment** 

PALOS VERDES DR NO.

WinCan America, Inc. 1730 Montano Road NE, Suite E Albuquerque, NM 87107

grade

S 1

S 1

S 1

S 3

S 4

S 2

S 1

Tel: (505) 341.0109, Fax: (505) 341.0133 **Inspection report** Weather: PSR: Surveyed By: section number: 72545 Dry **Rigo Alvarez** 1720 System Owner: Clean Date: Pre-Cleaned: Map Grid #: RHE 1598 Jetting Flow Control: Not Controlled Start MH: 1598-0097 Year Renewed End MH: 1598-0098 Tape/Media #: R076 pipe length: 68.2 ft Dia/Height: Circular 8"/8" Material: Vitrified Clay Pipe Pipe Length:

Use of Sewer: Sanitary Lining Method: Drain. Area: 0097/1598-0098/1598 Category: Remark:: 1:175 position observation MPEG photo 0.20 Manhole, within 8 inch: NO, Remarks: 1598-0097 00:00:32 10568 1598-0097 Crack Circumferential, from 12 to 4 o'clock, within 8 inch: YES 3.00 00:01:41 10569, b 5.40 Crack Circumferential, from 9 to 3 o'clock, within 8 inch: YES 00:03:20 10571, b 9.00 Water Level, 5 %, within 8 inch: NO 00:03:46 10573 12.20 General Observation, within 8 inch: NO, Remarks: Pipe joint Length 3' 00:04:05 10574 Crack Circumferential, from 2 to 4 o'clock, within 8 inch: YES 16.30 00:04:21 10575, b 19.80 Crack Multiple, from 12 to 4 o'clock, within 8 inch: YES 00:04:56 10577, b 23.00 Fracture Multiple, from 1 to 9 o'clock, within 8 inch: YES 00:05:40 10579, b 26.30 Fracture Circumferential, from 10 to 3 o'clock, within 8 inch: YES 00:06:30 10581, b 39.90 Crack Circumferential, from 12 to 5 o'clock, within 8 inch: YES 10583, b 00:07:13

	66.60	Fracture Lo	ngitudinal, at 4 o'cloo	ck, within 8 inch: YES	1	00:08:32	10585, b	S 3
	68.20	General Ob	servation, within 8 in	ich: NO, Remarks: To	Syphon In Line	00:09:31	10587	
,	68.20	Abandoned	Survey, within 8 incl	h: NO, Remarks: Due	e To Syphon	00:09:59	10588	
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	0	PRI
4132	0000	16	0	16	2	0		2
		080	9D 100%WinCanE	xport.mdb // page	e: 1			



Date:

20090518

Total Pipe Length:

336.00

Reason for inspection:

1:275

1598-0098

position

Use of Sewer:

Drain. Area:

Remark::

RHE

Location Code: Light Highway

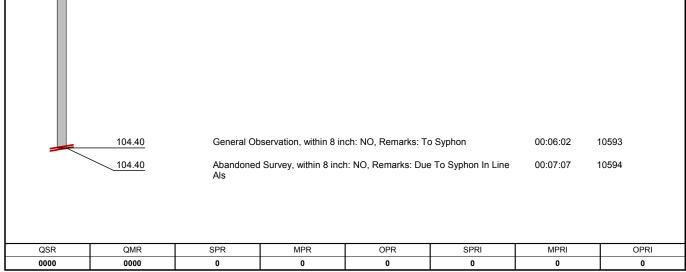
Street:

City:

WinCan America, Inc. 1730 Montano Road NE, Suite E Albuquerque, NM 87107

Tel: (505) 341.0109, Fax: (505) 341.0133 **Inspection report** P.O.#: Weather: PSR: Surveyed By: section number: Y0TV0809D **Rigo Alvarez** 72545 Dry 1721 Survey Customer: System Owner: Clean Date: Pre-Cleaned: Map Grid #: LÁCDPW RHE 1598 Jetting PALOS VERDES DR NO. Flow Control: Not Controlled Start MH: 1598-0098 Year Renewed End MH: 1598-0097 Tape/Media #: R076 pipe length: 104.4 ft Dia/Height: Circular 8"/8" **Routine Assessment** Material: Vitrified Clay Pipe Pipe Length: Sanitary Lining Method: 0097/1598-0098/1598 Category: observation MPEG photo grade

0.00 Manhole, within 8 inch: NO, Remarks: 1598-0098 00:00:20 10589 5.50 00:01:39 10590 Tap Break-in Active, at 2 o'clock, 4", within 8 inch: NO 16.40 Water Level, 20 %, within 8 inch: NO 00:02:13 10591 20.10 General Observation, within 8 inch: NO, Remarks: Pipe joint Length 3' 00:02:53 10592





### **Inspection report**

			Inspection	on report				
	Date: 20090506	P.O.#: Y0TV0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section nur 1602	nber:	PSF 7239	
To	tal Pipe Length: 215.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Clear Jetting		Map Gr 159	
Stree	t: ROLLING	WOOD DR	Flow Control: Not	Controlled	Start MH:	1598-029	93	
City:	RHE		Year Renewed		End MH:	1598-029	92	
Locat	ion Code: Light Hig	hway	Tape/Media #: R06	8	pipe length:	354 ft		
	on for inspection:	Routine Assessment		Dia/Height: Circular Material: Vitrified	8"/8" Clay Pipe Pipe I	_enath:		
	of Sewer: . Area:	Sanitary 0292/1598-0293/1598		Lining Method:		5		
Rema		0232/1030-0230/1030		Category:				
	1:792 po	osition o	oservation			MPEG	photo	grade
	_	0.00 M	anhole, within 8 inch: NO, Rei	marks: 1598-0293		00:00:42	8249	
		7.60 V	ater Level, 10 %, within 8 inch	n: NO		00:01:32	8250	
	1598-0293	<u>10.70</u> G	eneral Observation, within 8 ir	nch: NO, Remarks: Pipe Joir	nt Length 3'	00:01:56	8251	
		<u>26.60</u> T	ap Factory Active, at 9 o'clock	, 6", within 8 inch: NO		00:02:31	8252	
		<u>26.60</u> R	oots Fine Lateral, at 9 o'clock,	within 8 inch: NO		00:02:44	8253, b	M 1
		<u>41.90</u> T	ap Factory Active, at 3 o'clock	, 6", within 8 inch: NO		00:03:45	8255	
		44.50 C	rack Circumferential, from 12	to 4 o'clock, within 8 inch: Yl	ES	00:04:25	8256, b	S 1
		49.70 C	rack Circumferential, from 11	to 2 o'clock, within 8 inch: Yl	ES	00:05:19	8258, b	S 1
		53.90 C	rack Circumferential, from 5 to	9 o'clock, within 8 inch: YE	S	00:05:53	8260, b	S 1
,,,,,		58.20 F	acture Longitudinal, at 7 o'clo	ck, within 8 inch: YES		00:06:29	8262, b	S 3
<b>》</b>		<u>107.10</u> T	ap Factory Active, at 3 o'clock	, 6", within 8 inch: NO		00:07:54	8264	
8		<u>125.30</u> T	ap Factory Active, at 9 o'clock	, 6", within 8 inch: NO		00:08:38	8265	
<b>《</b>		<u>125.30</u> R	oots Medium Connection, at 9	o'clock, 40 %, within 8 inch	: NO	00:08:56	8266, b	M 3
		<u>151.10</u> F	acture Multiple, from 12 to 8 c	o'clock, within 8 inch: YES		00:10:26	8268, b	S 4
		<u>172.20</u> T	ap Factory Active, at 3 o'clock	, 6", within 8 inch: NO		00:11:28	8270	
		<u>188.30</u> T	ap Factory Active, at 9 o'clock	, 6", within 8 inch: NO		00:12:10	8271	
		<u>188.30</u> R	oots Ball Lateral, at 9 o'clock,	80 %, within 8 inch: NO		00:12:27	8272, b	M 4
		<u>205.70</u> T	ap Break-in Active, at 9 o'cloch	k, 6", within 8 inch: NO		00:13:24	8274	
		<u>205.70</u> R	oots Ball Connection, at 9 o'cl	ock, 85 %, within 8 inch: NO	)	00:13:38	8275, b	M 4
		<u>275.80</u> T	ap Factory Active, at 2 o'clock	, 6", within 8 inch: NO		00:15:45	8277	
		<u>285.60</u> T	ap Factory Active, at 9 o'clock	, 6", within 8 inch: NO		00:16:26	8278	
		<u>285.60</u> R	oots Fine Lateral, at 9 o'clock,	within 8 inch: NO		00:16:37	8279, b	M 1
		<u>325.40</u> T	ap Factory Active, at 3 o'clock	, 6", within 8 inch: NO		00:18:08	8281	
		<u>325.40</u> R	oots Fine Connection, at 3 o'c	lock, within 8 inch: NO		00:18:24	8282, b	M 1
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						Inspection	on report				
	Date: 20090506		P.4 <b>Y0TV</b>	0.#: <b>/0809D</b>		Weather: Dry	Surveyed By: Rigo Alvarez	section	number: 02	PSF 7239	R: 99
То	otal Pipe Length 215.00	1:	Survey (	Customer: CDPW	Sy	stem Owner: RHE	Clean Date:		eaned:	Map G 159	rid #:
	1:792	po	sition	obse	ervation				MPEG	photo	grade
<b>\$</b>		3	44.10	Root	ts Fine Jo	pint, from 5 to 7 o'c	lock, within 8 inch: Yl	ES	00:19:21	8284, b	M 1
	1598-0292	3	54.00	Man	hole, with	nin 8 inch: NO, Rer	narks: 1598-0292		00:20:11	8286	
	QSR 4131		QMR 4231	SPR 10		MPR 15	OPR 25	SPRI 2	MPRI 2.14		0PRI 2.08
				-		D 4000/MC 0	xport mdb // page				



			Inspection	on report				
	Date: 20090508	P.O.#: <b>Y0TV0809D</b>	Weather: <b>Dry</b>	Surveyed By: Rigo Alvarez	section nur 1631	nber:	PSR 7238	
T	otal Pipe Length: 331.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Clear Jetting		Map Gr 1598	
Stre	et: EASEME	NT	Flow Control: Not	Controlled	Start MH:	1598-027	72	
City	RHE		Year Renewed		End MH:	1598-027	73	
	ation Code: Light Hig	-	Tape/Media #: R07	- 	pipe length:	331 ft		
	son for inspection:	Routine Assessment		Dia/Height: Circular Material: Vitrified	8"/8" Clay Pipe Pipe I	_ength:		
	of Sewer: in. Area:	Sanitary 0272/1598-0273/1598		Lining Method:		5		
	nark::	0272/1598-0273/1598		Category:				
ton								
	1:627 pc	osition obs	ervation			MPEG	photo	grade
							0047	
			hole, within 8 inch: NO, Rei			00:00:26	8947	
	1598-0272		ter Level, 10 %, within 8 inch			00:04:40	8948	
		<u>9.60</u> Ger	eral Observation, within 8 ir	nch: NO, Remarks: Pipe join	t Length 3'	00:05:14	8949	
		28.60 Roc	ts Fine Joint, from 12 to 3 o	'clock, within 8 inch: YES		00:06:02	8950, b	M 1
		31.80 Roc	ts Fine Joint, from 10 to 11	o'clock, within 8 inch: YES		00:06:33	8952, b	M 1
		40.10 Roc	ts Fine Joint, from 9 to 4 o'c	clock, within 8 inch: YES		00:07:25	8954, b	M 1
		44.70 Tap	Factory Capped, at 3 o'cloc	ck, 6", within 8 inch: NO		00:08:08	8956	
		48.70 Tap	Factory Capped, at 9 o'cloc	ck, 6", within 8 inch: NO		00:08:38	8957	
,		58.20 Roc	ts Fine Joint, from 9 to 3 o'c	clock, within 8 inch: YES		00:09:14	8958, b	M 1
)		74.40 Cra	ck Circumferential, from 12	to 11 o'clock, within 8 inch: \	/ES	00:10:32	8960, b	S 1
)		74.40 Roc	ts Fine Joint, from 12 to 11	o'clock, within 8 inch: YES		00:10:45	8962, b	M 1
)		<u>124.00</u> Cra	ck Longitudinal, at 10 o'cloc	k, within 8 inch: YES		00:12:49	8964, b	S 2
		<u>126.90</u> Tap	Factory Capped, at 3 o'cloc	ck, 6", within 8 inch: NO		00:13:36	8966	
		130.20 Tap	Factory Capped, at 9 o'cloc	ck, 6", within 8 inch: NO		00:14:11	8967	
		 150.30 Cra	ck Circumferential, from 9 to	o 11 o'clock, within 8 inch: YI	ES	00:15:12	8968, b	S 1
		 150.30 Roc	ts Fine Joint, from 8 to 1 o'c	clock, within 8 inch: YES		00:15:27	8970, b	M 1
			ts Fine Joint, from 8 to 4 o'c			00:17:12	8972, b	M 1
			Factory Capped, at 2 o'cloc			00:18:33	8974	
		·		ock, 60 %, within 8 inch: NO		00:18:46	8975, b	M 4
								(VI <del>*</del>
			Factory Capped, at 10 o'clo		2	00:19:37	8977	
				clock, 90 %, within 8 inch: N	J	00:19:50	8978, b	M 4
		<u>233.50</u> Join	t Offset Medium, within 8 in	ch: YES		00:21:31	8980, b	S 1
		248.50 Tap	Break-in Active, at 10 o'clo	ck, 4", within 8 inch: NO		00:22:47	8982	



# Inspection report

	Date: 20090508		.O.#: /0809D	Weather: Dry	Surveyed By: Rigo Alvarez	section numbe	er:	PSR 7238	
Tot	tal Pipe Length: 331.00		Customer: CDPW	System Owner: RHE	Clean Date:	Pre-Cleaned Jetting	:	Map Gr 159	
	1:627	position	obs	ervation			MPEG	photo	grade
\$	-	270.60 <b>S1</b>	Wat	er Level Sag, 30 %, within	8 inch: NO, Start	0	0:23:54	8983, b	M 2
Ş		276.00	Тар	Factory Capped, at 12 o'cl	ock, 6", within 8 inch: NO	0	0:24:38	8985	
		281.40	Frac	cture Circumferential, from	2 to 4 o'clock, within 8 inch:	YES 0	0:25:32	8986, b	S 2
,		286.20	Frac	cture Longitudinal, at 2 o'clo	ock, within 8 inch: YES	0	0:26:24	8988, b	S 3
		297.70	Rep	air Patch, at 12 o'clock, wit	hin 8 inch: NO, Remarks: C	ement Patch 0	0:27:42	8990, b	
	1598-0273	298.90 <b>F1</b>	Wat	er Level Sag, 30 %, within	8 inch: NO, End	0	0:28:17	8992, b	M 2
		298.90	Wat	er Level, 10 %, within 8 inc	h: NO	0	0:28:31	8994	
		326.70	Crac	ck Longitudinal, at 10 o'cloc	ck, within 8 inch: YES	0	0:30:03	8995, b	S 2
		329.80	Frac	cture Multiple, from 9 to 4 o	clock, within 8 inch: YES	0	0:31:00	8997, b	S 4
	Ň	331.00	Man	hole, within 8 inch: NO, Re	marks: 1598-0273	0	0:32:00	8999	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	4227	16	29	45	2	1.81	1.88
			809D_100%WinCanE	xport.mdb // pag	e: 2		-



**Inspection report** Date: P.O.#: Weather: Surveyed By: section number: PSR: Y0TV0809D 20090604 **Rigo Alvarez** 70326 Dry 2488 Total Pipe Length: Survey Customer: System Owner: Clean Date: Pre-Cleaned: Map Grid #: LÁCDPW RHE 1652 220.00 Jetting Street: **BUCKSKIN LN** Flow Control: Not Controlled Start MH: 1652-0372 City: RHE Year Renewed End MH: 1653-0300 Location Code: Light Highway Tape/Media #: R087 pipe length: 199.8 ft Dia/Height: Reason for inspection: **Routine Assessment** Circular 8"/8" Material: Vitrified Clay Pipe Pipe Length: Use of Sewer: Sanitary Lining Method: Drain. Area: 0300/1653-0372/1652 Category: Remark:: 1:500 observation MPEG position photo grade 0.00 Manhole, within 8 inch: NO, Remarks: 1652-0372 00:00:27 116 1652-0372 3.80 Fracture Multiple, from 1 to 6 o'clock, within 8 inch: YES, Start 00:01:16 117, b S 4 **S1** 5.00 Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO 00.01.26 119 5.00 Roots Ball Connection, at 2 o'clock, 80 %, within 8 inch: NO 00:02:07 120, b M 4 5.90 **F1** Fracture Multiple, from 1 to 6 o'clock, within 8 inch: YES, End 00:02:40 122, b S 4 9.80 Water Level, 5 %, within 8 inch: NO 00:03:07 124 General Observation, within 8 inch: NO, Remarks: Pipe joint Length 5' 00.03.29 14.90 125 20.30 Fracture Longitudinal, at 3 o'clock, within 8 inch: YES 00:04:00 126, b S 3 61.90 Tap Factory Active, at 9 o'clock, 4", within 8 inch: NO 00:05:38 128 61.90 Roots Medium Lateral, at 9 o'clock, 45 %, within 8 inch: NO 00:05:56 129, b M 3 64.50 Tap Factory Capped, at 2 o'clock, 4", within 8 inch: NO 00:06:28 131 74.20 Tap Break-in Active, at 3 o'clock, 4", within 8 inch: NO 00:08:29 132 134.00 Tap Factory Capped, at 3 o'clock, 4", within 8 inch: NO 00:10:22 133 151.70 Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO 00:11:07 134 00:13:08 170.00 Tap Factory Active, at 10 o'clock, 4", within 8 inch: NO 135 199.80 Manhole, within 8 inch: NO, Remarks: 1653-0300 00.18.02 136 1653-0300 OSR OMR SPR MPR OPR SPRI MPRI OPRI 4131 4131 3.5 3.5 3.5 7 7 14



*WinCan America, Inc.* 1730 Montano Road NE, Suite E Albuguergue, NM 87107

Tel: (505) 341.0109, Fax: (505) 341.0133 **Inspection report** Date: P.O.#: Weather: Surveyed By: section number: PSR: Y0TV0809D 20090505 **Rigo Alvarez** 72395 Dry 1597 Total Pipe Length: Survey Customer: System Owner: Clean Date: Pre-Cleaned: Map Grid #: LÁCDPW RHE 1598 276.00 Jetting Street: ELMDALE DR Flow Control: Not Controlled Start MH: 1598-0289 RHE Year Renewed End MH: 1598-0288 City: Location Code: Light Highway Tape/Media #: R067 pipe length: 354.9 ft Reason for inspection: **Routine Assessment** Dia/Height: Circular 8"/8" Material: Vitrified Clay Pipe Pipe Length: Use of Sewer: Sanitary Lining Method: Drain. Area: 0288/1598-0289/1598 Category: Remark:: 1:561 MPEG position observation photo grade 0.00 Manhole, within 8 inch: NO, Remarks: 1598-0289 00:00:26 8121 1598-0289 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 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00.05.44 28.20 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 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:06:17 8136 88.20 97.30 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00.06.42 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 Crack Circumferential, from 5 to 9 o'clock, within 8 inch: YES 00:09:42 8142, b S 1 176.60 180.00 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 S 2 8146, b 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 S 2 00:13:28 8152, b 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		D.#: 0809D	Weather: <b>Dry</b>	Surveyed By: Rigo Alvarez	section number: 1597	PSF 7239	
Total Pipe Length: 276.00		Customer: DPW	System Owner: RHE	Clean Date:	Pre-Cleaned: Jetting	Map Gr <b>159</b>	
1:561	position	obse	rvation		MPEG	photo	grade
	240.00	Тар Г	Factory Active, at 9 o'clock,	6", within 8 inch: NO	00:14:44	8156	
	242.10	Crac	k Circumferential, from 1 to	4 o'clock, within 8 inch: YES	00:15:06	8157, b	S 1
	245.40	Crac	k Longitudinal, at 3 o'clock,	within 8 inch: YES	00:15:35	8159, b	S 2
	246.50	Tap I	Factory Active, at 3 o'clock,	6", within 8 inch: NO	00:16:06	8161	
	251.30	Crac	k Longitudinal, at 8 o'clock,	within 8 inch: YES	00:16:29	8162, b	S 2
	254.20	Fract	ure Multiple, from 9 to 3 o'	clock, within 8 inch: YES	00:17:06	8164, b	S 4
	268.00	Fract	ture Circumferential, from 1	to 4 o'clock, within 8 inch: YES	6 00:17:52	8166, b	S 2
	278.20	Fract	ure Circumferential, from 1	to 4 o'clock, within 8 inch: YES	5 00:18:36	8168, b	S 2
	294.80	Crac	k Circumferential, from 11	to 4 o'clock, within 8 inch: YES	00:19:29	8170, b	S 1
	308.40	Root	s Fine Joint, at 4 o'clock, w	ithin 8 inch: YES	00:20:11	8172, b	M 1
	308.40	Crac	k Longitudinal, at 4 o'clock,	within 8 inch: NO	00:20:20	8174, b	S 2
1598-0288	333.20	Tap I	Factory Active, at 3 o'clock,	6", within 8 inch: NO	00:21:15	8176	
$\mathcal{M}$	338.10	Root	s Fine Joint, from 2 to 4 o'c	lock, within 8 inch: YES	00:21:38	8177, b	M 1
	352.30	Fract	ure Circumferential, from 4	to 8 o'clock, within 8 inch: YES	S 00:22:34	8179, b	S 2
	354.90	Verm	in Cockroach, within 8 inch	n: NO	00:23:15	8181, b	M 1
	354.90	Manh	nole, within 8 inch: NO, Rer	narks: 1598-0288	00:23:37	8183	
QSR	QMR	SPR	MPR	OPR S	PRI MPRI		OPRI

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4128	1900	27	9	36	1.69	1	1.44



WinCan America, Inc. 1730 Montano Road NE, Suite E Albuquerque, NM 87107 [el: (505) 341.0109, Fax: (505) 341.0133

						341.0109, Fax	: (505) 341.013	3
			Inspecti	on report				
	Date: 20090518	P.O.#: <b>Y0TV0809D</b>	Weather: Dry	Surveyed By: Rigo Alvarez	section nur 1715		PSR 7242	
Tot	al Pipe Length:	Survey Customer:	System Owner:	Clean Date:	Pre-Clear	ned:	Map Gr	id #:
	305.00	LACDPW	RHE		Jettin	-	1598	5
Street		LN	Flow Control: Not Year Renewed	t Controlled	Start MH:	1598-01		
City:	RHE on Code: Light Hi	abway	Tape/Media #: R0	76	End MH: pipe length:	1598-019 300.4 ft	99	
	on for inspection:	Routine Assessment			lar 8"/8"	000.4 11		
	f Sewer:	Sanitary		Material: Vitrifi	ed Clay Pipe Pipe	Length:		
Drain.	Area:	0198/1598-0199/1598		Lining Method: Category:				
Rema	rk::							
	1:750 p	position obs	ervation			MPEG	photo	grade
		3.50         Roc           5.00         Wai           11.30         Tap           11.30         Roc           14.90         Tap           14.90         Ger           31.10         Ger	Factory, at 3 o'clock, 4", wi its Ball Connection, at 3 o'c er Level, 5 %, within 8 inch Factory, at 2 o'clock, 4", wi its Ball Connection, at 2 o'c Break-in Active, at 2 o'cloc its Fine Connection, at 2 o'cloc heral Observation, within 8 i Factory Active, at 3 o'clock	lock, 95 %, within 8 inch: : NO thin 8 inch: NO lock, 95 %, within 8 inch: k, 4", within 8 inch: NO clock, within 8 inch: NO nch: NO, Remarks: Pipe 4	NO	00:01:03 00:02:09 00:02:51 00:03:19 00:03:39 00:04:26 00:05:00 00:05:57 00:08:39	10514 10515, b 10517 10518 10519, b 10521 10522, b 10524 10525	M 4 M 4 M 1
		<u>198.20</u> Fra	cture Circumferential, from :	2 to 4 o'clock, within 8 inc	h: YES	00:10:22	10526, b	S 2
		244.80 Tap	Factory Capped, at 2 o'clo	ck, 4", within 8 inch: NO		00:12:15	10528	
		273.80 Tap	Break-in Active, at 2 o'cloc	k, 4", within 8 inch: NO		00:13:21	10529	
		287.70 Fra	cture Multiple, from 10 to 2	o'clock, within 8 inch: YES	3	00:14:19	10530, b	S 4
		295.50 Tap	Break-in Active, at 2 o'cloc	k, 6", within 8 inch: NO		00:15:18	10532	
	1598-0199	<u>300.40</u> Mar	hole, within 8 inch: NO, Re	marks: 1598-0199		00:15:59	10533	
	QSR	QMR SPR	MPR	OPR	SPRI	MPRI		OPRI
	4121	4211 6	9	15	3	3		3



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*WinCan America, Inc.* 1730 Montano Road NE, Suite E Albuquerque, NM 87107 Tel: (505) 341.0109, Fax: (505) 341.0133

**Inspection report** Date: P.O.#: Weather: Surveyed By: section number: PSR: Y0TV0809D 20090608 **Rigo Alvarez** 69785 Dry 2512 Total Pipe Length: Survey Customer: System Owner: Clean Date: Pre-Cleaned: Map Grid #: 260.00 LÁCDPW RHE 1653 Jetting Street: EASEMENT Flow Control: Not Controlled Start MH: 1653-0355 RHE Year Renewed End MH: 1653-0354 City: Location Code: Light Highway Tape/Media #: R089 pipe length: 261 ft Dia/Height: Reason for inspection: **Routine Assessment** Circular 8"/8" Material: Vitrified Clay Pipe Pipe Length: Use of Sewer: Sanitary Lining Method: Drain. Area: 0354/1653-0355/1653 Category: Remark:: 1:650 observation MPEG position photo grade 0.00 Manhole, within 8 inch: NO, Remarks: 1653-0355 00:00:31 350 1653-0355 8.60 General Observation, within 8 inch: NO, Remarks: Pipe joint Length 3' 00:02:59 351 00:04:02 30.80 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 352 56.00 Fracture Multiple, from 1 to 8 o'clock, within 8 inch: YES 00:05:29 353, b S 4 60.00 Crack Circumferential, from 7 to 10 o'clock, within 8 inch: YES 00.06.50 355, b S 1 Material Change, within 8 inch: NO, Remarks: To Cast Iron 00:09:58 357, b 151.70 Material Change, within 8 inch: NO, Remarks: To VCP 359, b 157.70 00.10.42 Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO 00:11:37 361 161.30 Roots Fine Lateral, at 2 o'clock, within 8 inch: NO 00:11:51 161.60 362, b M 1 225.50 Tap Factory Active, at 2 o'clock, 6", within 8 inch: NO 00:14:57 364 258.80 Crack Longitudinal, at 5 o'clock, within 8 inch: YES 00:16:35 365, b S 2 Joint Offset Medium, within 8 inch: YES 258.80 00:16:48 367, b S 1 1653-0354 Manhole, within 8 inch: NO, Remarks: 1653-0354 261.00 00:17:56 369 OSR OMR SPR MPR OPR SPRI MPRI OPRI

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			Inspect	ion report	Tel: (505	) 341.0109, Fax	. (505) 341.013	5
	Date: 20090429	P.O.#: <b>Y0TV0809D</b>	Weather: Dry	Surveyed By: Rigo Alvarez	section nu 1547		PSF 7240	
Т	otal Pipe Length: 228.00	Survey Customer: LACDPW	System Owner: RHE	Clean Date:	Pre-Clea Jettin		Map Gr <b>159</b>	
Stre City:		SPUR RD	Flow Control: No Year Renewed	ot Controlled	Start MH: End MH:	1598-029		
Loca	ation Code: Light Hig	hway	Tape/Media #: RO	064	pipe length:	342.7 ft		
Rea	son for inspection:	Routine Assessment		Dia/Height: Circul	ar 8"/8"			
Jse	of Sewer:	Sanitary		Material: Vitrifie	ed Clay Pipe Pipe	Length:		
Drai	n. Area:	0296/1598-0297/1598		Category:				
Rem	nark:: 1:850 pc	osition obs	ervation			MPEG	photo	grade
		3.00         Roo           5.00         Wa           12.60         Ger           24.70         Tap           29.70         Cra           62.50         S1           65.90         Roo           67.50         F1           77.30         Tap           126.90         Tap	P Factory Capped, at 9 o'clo ck Circumferential, from 6 cture Multiple, from 7 to 2 o ots Fine Barrel, from 3 to 4	within 8 inch: YES h: NO inch: NO, Remarks: Pipe jc bock, 6", within 8 inch: NO to 10 o'clock, within 8 inch: NO b'clock, within 8 inch: YES, 1 o'clock, within 8 inch: NO b'clock, 6", within 8 inch: NO bock, 6", within 8 inch: NO	YES Start	00:00:19 00:01:01 00:01:33 00:02:07 00:02:33 00:03:08 00:04:20 00:05:08 00:05:30 00:05:30 00:06:12 00:07:21	7136 7137, b 7139 7140 7141 7142, b 7144, b 7146, b 7146, b 7148, b 7150 7151 7152	M 1 S 1 S 4 M 2 S 4
				to 11 o'clock, within 8 inch:	YES	00:10:33	7153, b	S 1
	1598-0297	<u>QMR SPR</u>	nhole, within 8 inch: NO, R			00:12:46	7155	OPRI
		QIVIN JEIN	MPR	OPR	SPRI	MPRI		JEINI



**Inspection report** Date: P.O.#: Weather: Surveyed By: section number: PSR: Y0TV0809D 20090511 **Rigo Alvarez** 72625 Dry 1643 Total Pipe Length: Survey Customer: System Owner: Clean Date: Pre-Cleaned: Map Grid #: LÁCDPW RHE 1598 313.00 Jetting Street: SANTA BELLA RD Flow Control: Not Controlled Start MH: 1598-0060 RHE Year Renewed End MH: 1598-0061 City: Location Code: Light Highway Tape/Media #: R071 pipe length: 304.5 ft Dia/Height: Reason for inspection: **Routine Assessment** Circular 8"/8" Material: Vitrified Clay Pipe Pipe Length: Use of Sewer: Sanitary Lining Method: Drain. Area: 0060/1598-0061/1598 Category: Remark:: 1:750 observation MPEG position photo grade 0.00 Manhole, within 8 inch: NO, Remarks: 1598-0060 00:00:27 9184 1598-0060 5.00 Water Level, 5 %, within 8 inch: NO 00:01:16 9185 8.10 General Observation, within 8 inch: NO, Remarks: Pipe joint Length 3' 00.01.41 9186 Roots Fine Joint, from 7 to 9 o'clock, within 8 inch: YES 60.20 00:03:03 9187, b M 1 98.90 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:04:12 9189 Roots Fine Joint, at 5 o'clock, within 8 inch: YES 9190. b 124.90 00.04.28 M 1 129.20 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:05:27 9192 129.20 Roots Ball Lateral, at 9 o'clock, 60 %, within 8 inch: NO 00:05:46 9193, b M 4 166.70 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:07:02 9195 166.70 Roots Ball Lateral, at 3 o'clock, 65 %, within 8 inch: NO 00:07:26 9196, b M 4 Fracture Multiple, from 6 to 10 o'clock, within 8 inch: YES 00:09:15 9198, b S 4 213.60 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 9200 213.90 00:09:44 252.10 Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO 00:10:49 9201 295.70 Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO 00:12:06 9202 1598-0061 304.50 Manhole, within 8 inch: NO, Remarks: 1598-0061 00:12:53 9203 OSR OMR SPR MPR OPR SPRI MPRI OPRI 4212 4100 10 2.5 2.8 4 14 4



**Inspection report** Weather: PSR: Date: P.O.#: Surveyed By: section number: Y0TV0809D 20090519 **Rigo Alvarez** 72151 Dry 1731 Total Pipe Length: Survey Customer: System Owner: Clean Date: Pre-Cleaned: Map Grid #: 230.00 LÁCDPW RHE 1598 Jetting Street: DOBBIN LN Flow Control: Not Controlled Start MH: 1598-0502 City: RHE Year Renewed End MH: 1598-0501 Location Code: Light Highway Tape/Media #: R077 pipe length: 190.4 ft Dia/Height: Circular 8"/8" Reason for inspection: **Routine Assessment** Material: Vitrified Clay Pipe Pipe Length: Use of Sewer: Sanitary Lining Method: Drain. Area: 0501/1598-0502/1598 Category: Remark:: 1:475 observation MPEG position photo grade 0.00 Manhole, within 8 inch: NO, Remarks: 1598-0502 00:00:19 10754 1598-0502 7.50 Water Level, 5 %, within 8 inch: NO 00:01:38 10755 13.20 General Observation, within 8 inch: NO, Remarks: Pipe joint Length 6' 00.05.08 10756 37.70 Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO 00:02:52 10757 135.40 Tap Factory Abandoned, at 9 o'clock, 4", within 8 inch: NO 00:05:17 10758 149.00 Tap Factory Active, at 2 o'clock, 4", within 8 inch: NO 00:05:55 10759 178.10 **S1** Fracture Multiple, from 6 to 2 o'clock, within 8 inch: YES, Start 00:07:16 10760, b S 4 178.10 Roots Fine Joint, from 8 to 11 o'clock, within 8 inch: YES 00:07:35 10762, b M 1 182.10 Fracture Multiple, from 6 to 2 o'clock, within 8 inch: YES, End **F1** 00:08:39 10764, b **S**4 1598-0501 Manhole, within 8 inch: NO, Remarks: 1598-0501 00:09:35 10766 190.40 OSR OMR SPR MPR OPR SPRI MPRI OPRI 4100 1100 4 2.5 1 5 4 1