



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

January 8, 2009

IN REPLY PLEASE

REFER TO FILE **SM-1**

Mr Dirk Lovett
City Engineer
City of Hidden Hills
6165 Spring Valley Road
Hidden Hills, CA 91302-1257

Attention Ms. Deana Graybill

Dear Mr Lovett:

CONSOLIDATED SEWER MAINTENANCE DISTRICT CONDITION ASSESSMENT PROGRAM REPORT PROJECT Y0TV0506F

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 7,273 feet or approximately 94 percent of the City of Hidden Hills' sewer system

The enclosed report outlines the structural and maintenance ratings of your sewer 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)
- CCTV Sewer Inspection Project Schedule (Enclosure 5)
- Fat, Oil, Grease (FOG) Door Hanger (Enclosure 6)

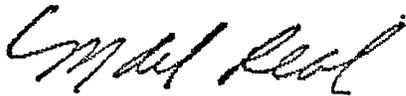
Mr. Dirk Lovett
January 8, 2009
Page 2

The Condition Assessment Report provides you with details regarding the maintenance and structural condition of your City's sewer mainlines. This information can be included in your agency's Sewer System Management Plan as a reference in Chapter 8.0, System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, in some instances, 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 at rswartz@dpw.lacounty.gov.

Very truly yours,

GAIL FARBER
Director of Public Works



MANUEL DEL REAL
Assistant Deputy Director
Sewer Maintenance Division

PK.kk
1593

Enc.

bc: Programs Development (Ghazarian)
bc: MdR, KL, RS, FV, [File \(Y0TV0506F\)](#), SPINDLE

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

PROJECT NAME:	Y0TV0506F	PROJECT MGR:	Fernando Villaluna
PROJECT DATE:	06/27/06 – 08/04/06	CONTACT NO:	(626) 300-3380
SUP. DISTRICT(s):	3	MAP PAGE(S):	1191
Report By:	Phyo Kyaw	Report Date:	11/17/08

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 7,273 feet or approximately 9.4 percent of the City of Hidden Hills' 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 Y0TV0506F included sewer lines located in Unincorporated County of Los Angeles area and the Cities of Agoura Hills, Calabasas, Hidden Hills, Malibu, Rancho Palos Verdes and Westlake Village. 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: Sever 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 65.9 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 34.1 percent of the inspected pipe segments within the City of Hidden Hills 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.

It was noted that a few of these segments involved high concentration of fat, oil and grease (FOG) in residential areas. It is recommended that these areas with prevalent FOG deposits be targeted with public awareness regarding preventative measures on FOG issues. We've included a copy of a door-hanger providing information on such issues for your reference (Enclosure 6). In the future, our maintenance crews will distribute this FOG brochure, targeting residential areas where FOG has been observed. We find this public awareness strategy to be the most effective means of addressing FOG problems in residential areas.

QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	1,507	20.7	5
2: Good	1,345	18.5	7
3: Fair	1,940	26.7	6
4: Poor	2,266	31.1	8
5: Immediate Attention	215	3.0	1
TOTAL	7,273	100.0	27

STRUCTURAL REPORT

Our inspection revealed that approximately 96.8 percent of the inspected pipe segments within the City of Hidden Hills were free of severe structural defects. However, the remaining 3.2 percent of the inspected pipe segments had a PACP structural grade of 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. Item 1 in the Quick Structural Rating Report Priority List (Enclosure 3) will be repaired by County forces. A color-coded map showing the Quick Structural Rating for each pipe segment is located in Enclosure 3. A copy of the actual inspection report for this segment is included in Enclosure 4.

QUICK STRUCTURAL RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Excellent	6,298	86.6	23
2: Good	543	7.5	2
3: Fair	196	2.7	1
4: Poor	0	0.0	0
5: Immediate Attention	236	3.2	1
TOTAL	7,273	100.0	27

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 Hidden Hills. For your reference, the CCTV Sewer Inspection project schedule for the City of Hidden Hills is listed in Enclosure 5.

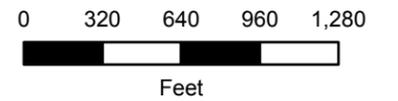
ENCLOSURE 1:

Project Overview Map

PROJECT OVERVIEW MAP

CCTV PROJECT
Y0TV0506F

Supervisorial District 3 □ 4
City of Agoura Hills, Calabasas,
Hidden Hills, Malibu, Rancho Palos
Verdes, Westlake Village □
County Unincorporated



Legend

SMD Sanitary Sewers

- Other
- 4
- 8
- 10
- 12
- 15
- 18

SMD Manholes

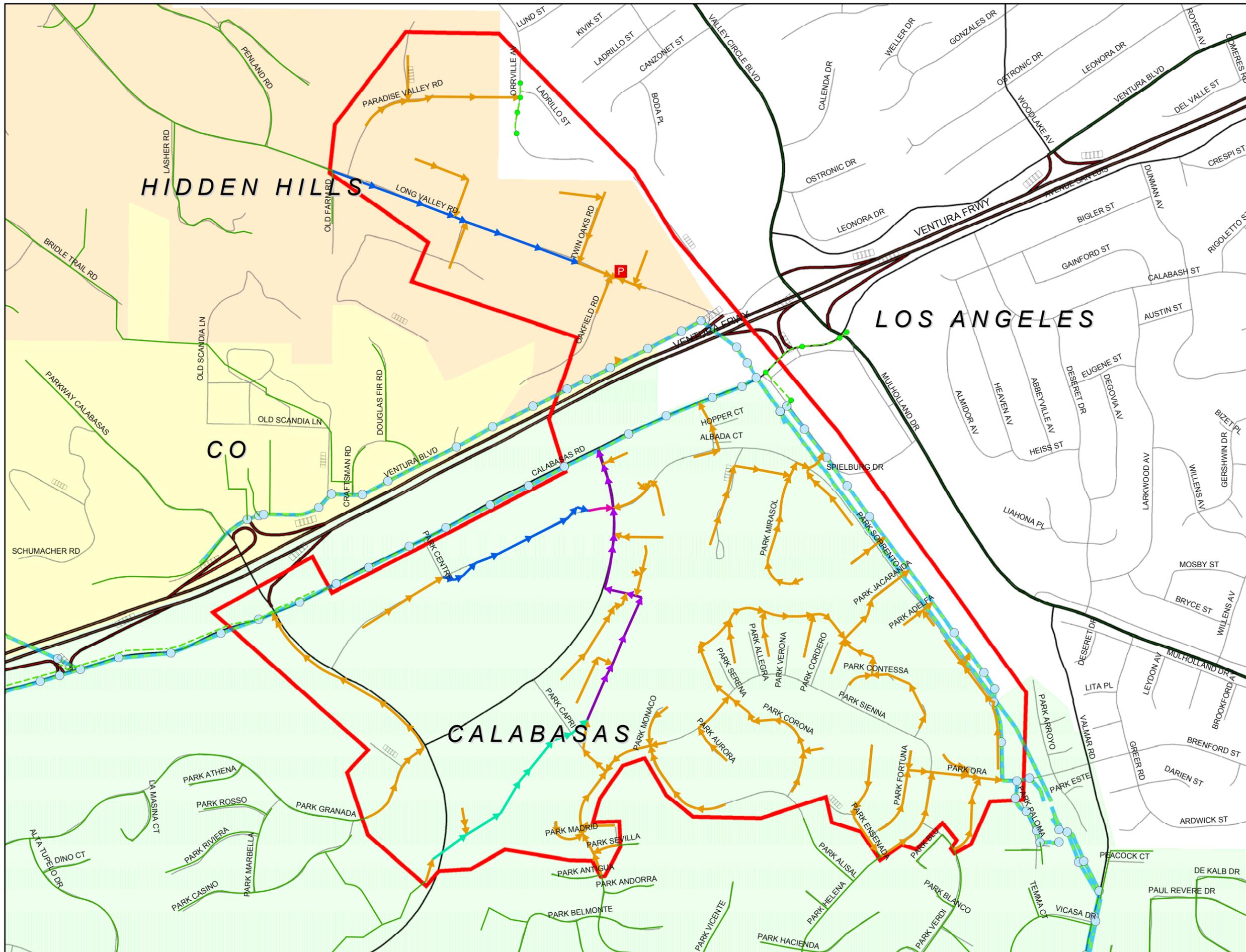
- Other
- Standard
- Siphon
- Trap
- Shallow
- Drop

- SMD Pump Satations
- SMD Treatment Plants

Maintained by Others:

- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH
- SMD Operations Maps
- Y0TV0506F

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ENCLOSURE 2:

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

ENCLOSURE 2
 QUICK MAINTENANCE RATING REPORT PRIORITY LIST
 CITY OF HIDDEN HILLS (Y0TV0506F)
 as of 08/04/06

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	5121	1191-0135	1191-0026	ALLEY by PARADISE VALLEY and LONG VALLEY	Debris	Hydrojet (Completed 10/30/08)
2	4434	1191-0024	1191-0025	LONG VALLEY	Grease; Roots	Hydrojet (Completed 10/29/08)
3	4338	1191-0023	1191-0024	LONG VALLEY	Grease	Hydrojet (Completed 10/29/08)
4	4300	1191-0147	1191-0142	LONG VALLEY	Camera underwater	Hydrojet (Completed 10/30/08)
5	4133	1191-0140	1191-0141	LONG VALLEY	Camera underwater	Hydrojet (Completed 10/30/08)
6	4132	1191-0066	1191-0067	PARADISE VALLEY	Infiltration weeper	No action needed
7	4125	1191-0067	1191-0068	PARADISE VALLEY	Grease	Hydrojet (Completed 10/29/08)

The following line segments received a Quick Maintenance Rating of above 4000 due to the observation of Root Ball or Deposit inside the lateral connection. CSMD does not maintain lateral lines: it is the responsibility of the parcel owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. Therefore, these lines were not included on the Priority List above identified with maintenance deficiencies in need of immediate attention by CSMD.

Item No.	QMR	Start MH	End MH	Street	Observation
1	4233	1191-0141	1191-0142	LONG VALLEY	Roots in lateral
2	4111	1191-0137	1191-0139	LONG VALLEY	Roots in lateral

ENCLOSURE 2

CCTV PROJECT Y0TV0506F

Supervisory District 3
HIDDEN HILLS

QUICK MAINTENANCE RATING (QMR)



Legend Feet

SMD Sanitary Sewers

QMR

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

SMD Manholes

- Other
- Standard
- Siphon
- Trap
- Shallow
- Drop
- SMD Pump Satations
- SMD Treatment Plants

Maintained by Others:

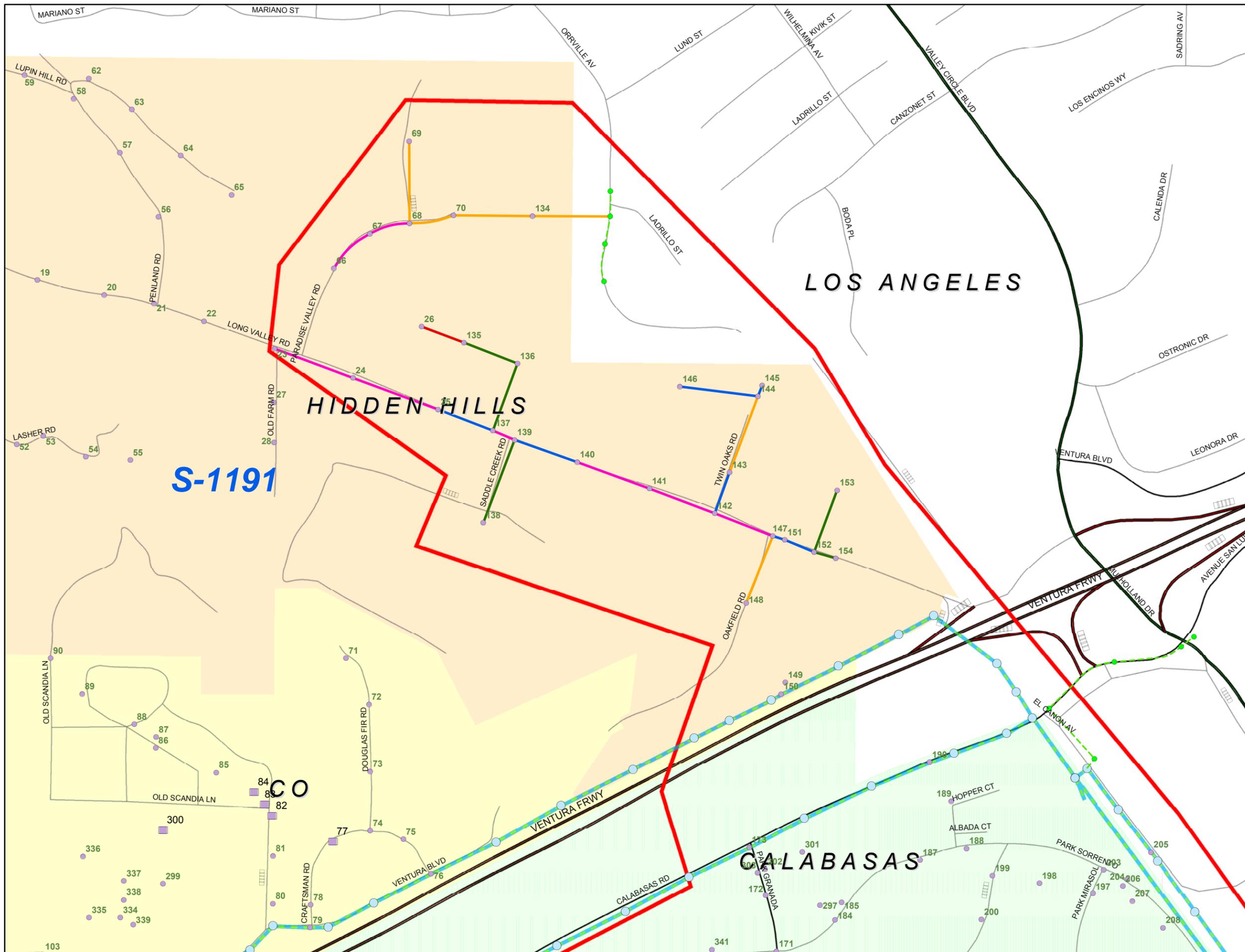
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Trunk Mh
- Non SMD Maintained MH

- SMD Operations Maps
- CCTV Project Area

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SEPTEMBER 2008

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ENCLOSURE 3:

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

ENCLOSURE 3
QUICK STRUCTURAL RATING REPORT PRIORITY LIST
CITY OF HIDDEN HILLS (Y0TV0506F)
as of 08/04/06

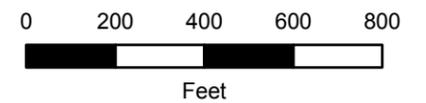
Item No.	QSR	Start MH	End MH	Street	Observation: Location	Proposed Corrective Method	Length of Repair (FT)
1	5131	1191-0066	1191-0067	PARADISE VALLEY	Hole: End MH	CSMD will repair MH base	-

ENCLOSURE 3

CCTV PROJECT Y0TV0506F

Supervisory District 3
HIDDEN HILLS

QUICK STRUCTURAL RATING (QSR)



Legend

SMD Sanitary Sewers

QSR

- 1: EXCELLENT (green line)
- 2: GOOD (blue line)
- 3: FAIR (yellow line)
- 5: IMMEDIATE ATTENTION (red line)

SMD Manholes

- Other (circle with cross)
- MH Type
 - Standard (purple circle)
 - Siphon (purple circle with cross)
 - Trap (purple diamond)
 - Shallow (purple square)
 - Drop (purple triangle)
- SMD Pump Stations (red square with 'P')
- SMD Treatment Plants (black square with 'WTP')

Maintained by Others:

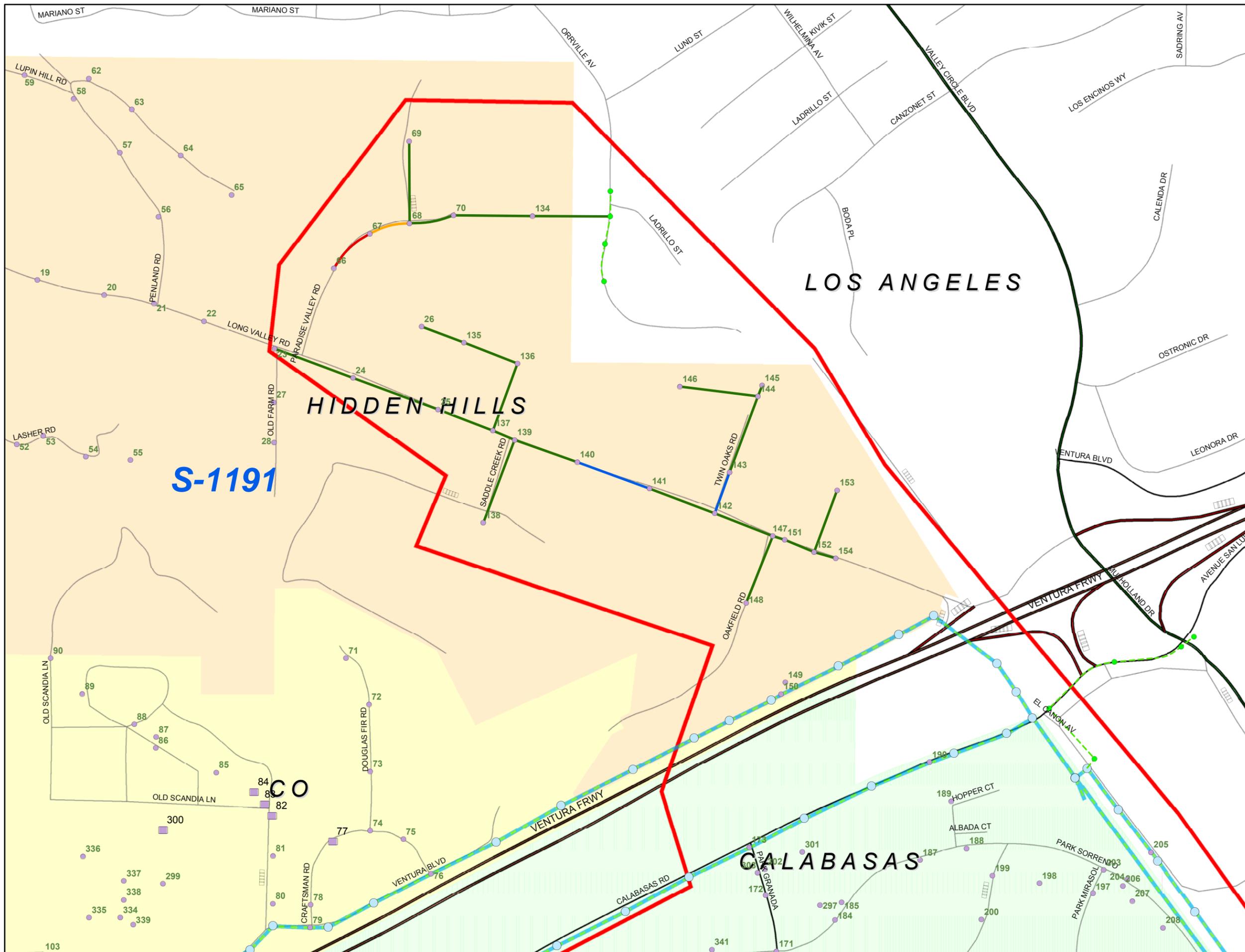
- Trunk Sewerlines (thick blue line)
- Non SMD Sanitary Sewers (dashed green line)
- Trunk Mh (blue circle)
- Non SMD Maintained MH (green circle)

- SMD Operations Maps (blue outline)
- CCTV Project Area (red outline)

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SEPTEMBER 2008

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ENCLOSURE 4:

Infrastructure Inspection Reports
for Grades 4 and 5



National Plant Services, INC.
 1461 Harbor Avenue
 Long Beach, CA 90813-2741
 Tel: (800) 445-3614, Fax: (562) 495-1528

Inspection report

Date: 20060726	P.O.#: YOTV0506F	Weather: 1 Dry	Surveyed By: Gilbert Contreras	section number: 1051	PSR: 31470
Total Pipe Length: 236.00	Survey Customer: LACDPW	System Owner: HHL	Clean Date:	Pre-Cleaned: J Jetting	Map Grid #: 1191

Street: PARADISE VALLEY	Flow Control: N Not Controlled	Start MH: 1191-0066
City: HHL	Year Renewed:	End MH: 1191-0067
Location Code: C Light Highway	Tape/Media #: G016	Total length surveyed: 245.8 ft

Purpose: F Routine Assessment	Dia/Height: C Circular 8/8
Use: SS Sanitary	Material: VCP Vitrified Clay Pipe Pipe Joint length: 5.0
Drain. Area: 1191	Lining:
	Category:

Comment:
 Location details: **Long Valley Rd**

1:600	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1191-0066	00:00:44	2984	
	3.00	Fracture Circumferential, from 7 to 10 o'clock, within 8 inch: YES	00:02:12	2985	
	3.00	Fracture Longitudinal, at 9 o'clock, within 8 inch: YES	00:02:41	2986	
	3.00	Roots Tap Joint, from 2 to 5 o'clock, 15 %, within 8 inch: YES	00:03:06	2987	
	4.00	Tap Factory Active, at 9 o'clock, 4" within 8 inch: NO	00:03:44	2988	
	8.00	Water Level, 5 %, within 8 inch: NO	00:04:15	2989	
	51.10	Deposits Attached Other, from 8 to 3 o'clock, 5 %, within 8 inch: NO	00:05:43	2990	
	69.30	Tap Factory Active, at 9 o'clock, 4" within 8 inch: NO	00:06:39	2991	
	69.30	Roots Fine Lateral, at 9 o'clock, within 8 inch: NO	00:06:57	2992	
	73.90	Tap Factory Active, at 2 o'clock, 4" within 8 inch: NO	00:07:39	2993	
	113.40	Deposits Attached Other. from 8 to 4 o'clock, 5 %, within 8 inch: NO	00:09:41	2994	
	149.90	Tap Factory Active, at 9 o'clock, 4" within 8 inch: NO	00:11:31	2995	
	159.30	Deposits Attached Other, from 9 to 5 o'clock, 5 %, within 8 inch: NO	00:12:13	2996	
	166.40	Alignment Right, within 8 inch: NO	00:12:48	2997	
	222.50	Deposits Attached Other, from 8 to 4 o'clock, 5 %, within 8 inch: NO	00:14:51	2998	
	232.80	General Observation, within 8 inch: NO, Remarks: joint length 5'	00:15:47	2999	
	242.60	Infil Dripper. at 2 o'clock, within 8 inch: NO	00:16:38	3000	
	242.70	Deposits Attached Other, from 7 to 5 o'clock, 5 %, within 8 inch: NO	00:17:01	3001	
	242.90	Infil Weeper, from 9 to 10 o'clock, within 8 inch: NO	00:17:24	3002	
	243.90	Infil Dripper, from 2 to 4 o'clock, within 8 inch: NO	00:17:56	3003	
	244.60	Hole Soil Visible, from 7 to 9 o'clock, within 8 inch: NO	00:18:36	3004	
	244.60	Infiltration Runner. from 10 to 02 o'clock, within 8 inch: YES	00:18:58	3005	
	245.80	Manhole, within 8 inch: NO, Remarks: 1191-0067	00:19:33	3006	

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

ENCLOSURE 5:

CCTV Sewer Inspection Project Schedule

Hidden Hills**CCTV PROJECT SCHEDULE**

FISCAL YEAR	YARD	SUP DIST	PROJECT NAME	LENGTH (FT)*
2005-2006	S	3	Y0TV0506F	7,273
2014-2015	S	3	3_2	69,595
			TOTAL (FT)	76,868
			TOTAL (MILES)	15

* Approximate length as of July 2005, actual project length may vary

ENCLOSURE 6:

- FAT, OIL, GREASE (FOG)
Door Hanger



COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

PUBLIC NOTICE

Dear Customer,

During a recent inspection of the mainline sewer on your street, our crews identified a heavy accumulation of grease in the sewer system.

In the interest of providing improved customer service and to eliminate the potential for sewer stoppages and overflows, we would like to work together to make our Sewer System FAT-FREE. We can start by getting rid of **Fats, Oils, and Grease (FOG)** to minimize stoppages and reduce costs.



WHY IS IT IMPORTANT TO KEEP FOG OUT OF THE SEWER SYSTEM?

- FOG attaches to the inside of the pipe and decreases flow
- FOG causes Sanitary Sewer Overflows
- FOG creates odor problems
- FOG attracts vermin such as roaches