



GAIL FARBER, Director

# COUNTY OF LOS ANGELES

## DEPARTMENT OF PUBLIC WORKS

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

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ALHAMBRA, CALIFORNIA 91803-1331  
Telephone: (626) 458-5100  
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ADDRESS ALL CORRESPONDENCE TO:  
P.O. BOX 1460  
ALHAMBRA, CALIFORNIA 91802-1460

July 9, 2013

IN REPLY PLEASE

REFER TO FILE: **SM-1**

Mr. Ramiro Adeva  
Director of Public Works  
City of Agoura Hills  
30001 Ladyface Court  
Agoura Hills, CA 91301

Attention Ms. Charmaine Yambao

Dear Mr. Adeva:

**CONSOLIDATED SEWER MAINTENANCE DISTRICT  
CONDITION ASSESSMENT PROGRAM REPORT  
PROJECT NO. Y0TV0910A**

This letter is to inform you that as part of our 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 157,231 feet or 55.5 percent of the City of Agoura Hills' sewer system.

The enclosed report outlines the structural and maintenance ratings of your system based on the Pipeline Assessment and Certification Program's (PACP Version 6.0.1) 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)
- Infiltration List and Map (Enclosure 2)
- Quick Structural Rating Report Priority List, Quick Structural Rating Map, and Lining Projects Map (Enclosure 3)
- Infrastructure Inspection Reports for Grades 4 and 5 (Enclosure 4)

Mr. Ramiro Adeva  
July 9, 2013  
Page 2

The Condition Assessment Report provides details regarding the maintenance and structural condition of your City's sewer mainlines. This information should be included in your agency's Sewer System Management Plan as a reference in Chapter 8.0 System Evaluation and Capacity Assurance Plan. The segments with critical maintenance issues have been cleaned and, where appropriate, incorporated into our enhanced maintenance 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 our ongoing Accumulative Capital Outlay Program.

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

Very truly yours,

GAIL FARBER  
Director of Public Works



RAJESH PATEL  
Assistant Deputy Director  
Sewer Maintenance Division

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Enc.

bc: RP, MM, RS, FV, File (CAPR Project No. Y0TV0910A), SPINDLE

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

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PROJECT NAME:	Y0TV0910A	PROJECT MGR:	Eric Liu
PROJECT DATE:	07/21/2010	CONTACT NO:	(626) 300-3369
SUP. DISTRICT(S):	3	MAP PAGE(S):	1065, 1066, 1090, 1091
Report By:	Eric Liu	Report Date:	06/06/2013

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**INTRODUCTION**

As part of our Sewer Condition Assessment Program, the County of Los Angeles Department of Public Works Consolidated Sewer Maintenance District (District) has completed the closed-circuit television (CCTV) inspection of 157,231 feet or 55.5 percent of the City of Agoura Hills' (City) sewer system as part of this condition assessment report.

To date, the District has completed the CCTV inspection of 186,638 feet or 65.9 percent of the City's sewer system. In addition to this report, one previous condition assessment report dated December 9, 2008, was transmitted to your City. A copy of this report can also be found on the District's website at <http://dpw.lacounty.gov/smd/cctv/city/>. The remaining 34.1 percent of the City's sewer system is scheduled for CCTV inspection in Fiscal Year 2013-14.

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

**PROJECT AREA AND DESCRIPTION**

Project No. Y0TV0910A included sewer lines located in the unincorporated County of Los Angeles and in the Cities of Agoura Hills, Rancho Palos Verdes, Rolling Hills Estates, 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	Defect Grade Description
1:	MINOR
2:	MINOR TO MODERATE
3:	MODERATE
4:	SIGNIFICANT
5:	MOST SIGNIFICANT

## MAINTENANCE REPORT

Our inspection revealed that approximately 86.2 percent of the system televised was free of blockages or restrictions that would impede sewer flows. However, the remaining 13.8 percent of the inspected pipe segments within the City area had a PACP maintenance grade of 3, 4, or 5 as indicated in the Quick Maintenance Rating Table shown below. These segments have been incorporated into our enhanced maintenance schedule with corrective action taken as noted on the Quick Maintenance Rating Report Priority List (Enclosure 2).

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

## QUICK MAINTENANCE RATING TABLE

DEFECT GRADE	PIPE LENGTH (FT)	PERCENT TOTAL INSPECTED PIPE LENGTH	NO. SEGMENTS
1: Minor	99,110	63.0	453
2: Minor to Moderate	36,460	23.2	159
3: Moderate	11,176	7.1	48
4: Significant	7,702	4.9	39
5: Most Significant	2,783	1.8	16
TOTAL	157,231	100.0	715

### ***Lateral Notices***

Also included on the Quick Maintenance Rating Report Priority List are deficiencies discovered inside lateral connections to the mainline. The District does not maintain lateral lines. It is the responsibility of the property owner to maintain their respective lateral lines to facilitate the flow of wastewater from their property to the mainline. As a result of this condition assessment, 4 notices will be sent to property owners in your City notifying them of the maintenance issues discovered in their lateral. A sample lateral notice letter is provided in Enclosure 2 for your reference.

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

Our inspection revealed that approximately 97.5 percent of the system televised has adequate capacity. Approximately 2.5 percent of the segments inspected exhibited deficiencies associated with high water levels. Capacity of the sewer pipe can be determined by analyzing several PACP codes, including Water Level, Water Mark, and miscellaneous remarks, which indicated the camera was underwater or there were sags in the line. A sewer pipe is typically considered at capacity when the sewer pipe is flowing half full. However, there are conditions in which the water level or water mark has reached 50 percent of capacity or greater due to heavy flows in adjoining pipes, a temporary stoppage due to debris in the sewer lines, or a sag in the line. Therefore, additional review of the pipe segments exhibiting high water level concerns was conducted to determine if any capacity issues exist. The sewer segments associated with high water levels appear to be the result of sags in the line, which do not impact its capacity. The pipe segments with sags have been cleaned to remove any debris in the lines.

All sewer pipes where Water Level, Water Mark, and miscellaneous remarks of camera underwater or sags in the line are at or above 50 percent capacity, have been listed 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 approximately 4.2 percent of the system included in this project has infiltration within the pipe segment. Infiltration is the ingress of groundwater into the sewers through a defect or porous area of the pipe wall. All sewer pipes where infiltration was found are listed on the Infiltration Table (Enclosure 2). This table also provides the proposed corrective action for these impacted sewer segments. If a corrective method is proposed, the remediation will be scheduled in the next 24 months as part of our ongoing Accumulative Capital Outlay Program.

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

## **STRUCTURAL REPORT**

Our inspection revealed that approximately 98.8 percent of the inspected pipe segments within the City were free of severe structural defects. The remaining 1.2 percent of the inspected pipe segments had a PACP structural grade of 4 and 5 as indicated in the Quick Structural Rating Table shown below. These segments have been placed on a priority list based on the severity and the need for action. For Items 1 through 6 in the Quick Structural Rating Report Priority List (Enclosure 3), which require a corrective action, the proposed repair or replacement will be scheduled in the next 24 months as part of our ongoing Accumulative Capital Outlay Program.

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 6 segments are included in Enclosure 4. A map showing the sewer lines that need lining is also provided in Enclosure 3.

### **QUICK STRUCTURAL RATING TABLE**

<b>DEFECT GRADE</b>	<b>PIPE LENGTH (FT)</b>	<b>PERCENT TOTAL INSPECTED PIPE LENGTH</b>	<b>NO. SEGMENTS</b>
1: Minor	150,331	95.6	686
2: Minor to Moderate	5,041	3.2	20
3: Moderate	579	0.4	3
4: Significant	391	0.2	2
5: Most Significant	889	0.6	4
<b>TOTAL</b>	<b>157,231</b>	<b>100.0</b>	<b>715</b>

## **FUTURE PROJECTS**

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

<b>FISCAL YEAR</b>	<b>PROJECT NAME</b>	<b>LENGTH (FT)</b>	<b>PERCENTAGE OF SYSTEM</b>	<b>STATUS</b>
2005-2006	Y0TV0506F	29,407	10.4	COMPLETED
2009-2010	Y0TV0910A	157,231	55.5	COMPLETED
2013-2014	Y0TV1314A	96,600	34.1	FUTURE
<b>TOTAL</b>		<b>283,238</b>	<b>100.0</b>	

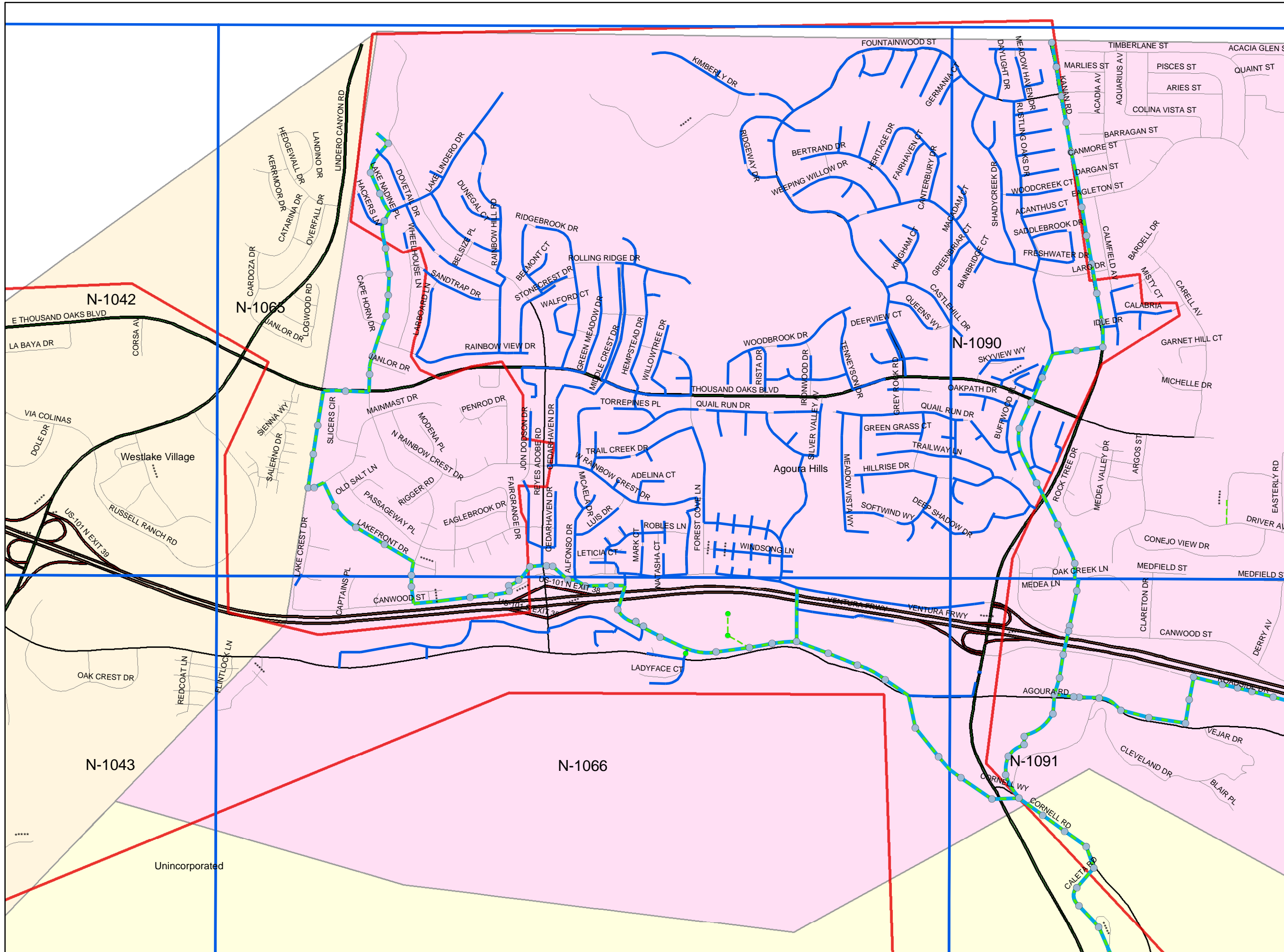
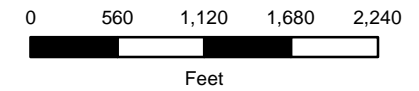
ENCLOSURE 1:

Project Overview Map

# OVERVIEW MAP

## CCTV PROJECT YOTV0910A

### AGOURA HILLS



#### Legend

##### SMD Sanitary Sewers

— SMD Sanitary Sewers

##### SMD Manholes

⊙ Other

● Standard

▲ DROP

■ Shallow

◆ Trap

⊗ Siphon

■ SMD Pump Stations

■ SMD Treatment Plants

— Maintained by Others:

— Trunk Sewerlines

--- Non SMD Sanitary Sewers

● Non SMD Maintained MH

□ SMD Operations Maps

□ CCTV PROJECT AREA

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JUNE 2013



## ENCLOSURE 2:

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

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF AGOURA HILLS (Y0TV0910A)**  
as of 07/21/10

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
1	523C	1066-0029	1066-0030	EASEMENT	Roots; infiltration runner	Hydro (05/24/2013) Lining: MH to MH
2	5141	1065-0183	1065-0182	RAINBOW VIEW DR	Deposit in MH 182; grease in lateral	Hydro (10/29/2012) Lateral notice will be sent to property owner.
3	5141	1065-0533	1090-0365	FOUNTAINWOOD ST	Camera underwater	Hydro (12/17/2012)
4	5141	1065-0629	1065-0628	EASEMENT	Deposit; infiltration runner	Hydro (12/21/2012) CSMD will repair MH.
5	5131	1090-0207	1090-0208	ROCK CREEK RD	Deposit; infiltration dripper	Hydro (12/07/2012)
6	512S	1065-0260	1090-0208	TRAILWAY LN	Deposit; deposit in MH 208	Hydro (07/23/2012)
7	512O	1065-0182	1065-0181	RAINBOW VIEW DR	Deposit; grease in lateral	Hydro (10/29/2012) Lateral notice will be sent to property owner.
8	512C	1090-0314	1090-0204	EASEMENT	Deposit	Hydro (12/07/2012)
9	512A	1065-0180	1065-0181	RAINBOW VIEW DR	Deposit in MH 181	Hydro (10/29/2012)
10	5100	1065-0203	1065-0204	SAND TRAP DR	Heavy deposit; debris in MH 204	Hydro (12/14/2012)
11	5100	1065-0268	1065-0269	Private Rd	Debris in MH 269	Hydro (07/23/2012)
12	5100	1065-0374	1065-0375	WALFORD CT	Deposit; deposit in MH 375	Hydro (12/14/2012)
13	5100	1065-0400	1065-0399	OAKVISTA CT	Deposit; deposit in MH 400	Hydro (12/14/2012)
14	5100	1065-0528	1065-0527	FOUNTAINWOOD ST	Obstacle; debris; camera underwater	Hydro (12/17/2012)
15	5100	1090-0052	1090-0053	HOLLOW OAK CT	Deposit; debris; infiltration runner	Hydro (12/07/2012) Sectional Liner (Completed 08/22/11)
16	5100	1090-0340	1090-0341	BUFFWOOD PL	Infiltration runner	CSMD will repair MH.
17	4C26	1065-0392	1065-0391	LANGFIELD CT	Camera underwater	Hydro (12/14/2012)
18	4B2J	1090-0168	1090-0170	CALMFIELD AV	Camera underwater	Hydro (12/07/2012)
19	4922	1065-0447	1065-0456	MEADOWMIST WY	Camera underwater	Hydro (12/14/2012)
20	4221	1065-0579	1065-0573	EDINBURGH CT	Infiltration runner	CSMD will repair MH.
21	4135	1090-0354	1090-0353	LARO DR	Camera underwater	Hydro (12/07/2012)
22	4134	1065-0431	1065-0392	THOUSAND OAKS BV	Camera underwater	Hydro (12/14/2012)
23	4134	1065-0532	1065-0533	FOUNTAINWOOD ST	Camera underwater	Hydro (12/17/2012)
24	4131	1065-0184	1065-0183	RAINBOW VIEW DR	Deposit in MH 183 & MH 184	Hydro (10/29/2012)
25	4131	1065-0718	1065-0717	RAINBOW HILL RD	Deposit in MH 717; infiltration dripper	Hydro (12/10/2012)
26	4131	1090-0043	1090-0044	EASEMENT	Infiltration dripper	No action needed.
27	412J	1065-0028	1065-0027	CEDARHAVEN DR	Infiltration runner	Lining: MH to MH
28	412E	1090-0355	1090-0354	LARO DR	Deposit near MH 354	Hydro (12/07/2012)
29	412D	1065-0186	1065-0185	RAINBOW HILL RD	Grease; infiltration runner	Hydro (12/14/2012) Lining: MH to MH
30	412B	1090-0369	1090-0370	Private Rd	Deposit	Hydro (12/07/2012)
31	412B	1090-0364	1090-0363	FOUNTAINWOOD ST	Watermark	No action needed.
32	412A	1065-0367	1065-0366	HURFORD CT	Watermark	No action needed.
33	412A	1090-0347	1090-0348	Private Rd	Watermark	No action needed.
34	4124	1065-0315	1065-0317	ROBLES DR	Infiltration runner	CSMD will repair MH.
35	4124	1090-0348	1090-0370	Private Rd	Infiltration runner	CSMD will repair MH.
36	4123	1065-0317	1065-0319	ROBLES DR	Infiltration runner	CSMD will repair MH.
37	4122	1065-0023	1065-0024	EASEMENT	Sag	Hydro (12/21/2012)
38	4122	1066-0048	1066-0047	LADYFACE CR	Deposit in MH 47	Hydro (12/10/2012)
39	4121	1065-0258	1065-0257	TRAILWAY LN	Debris; rocks; debris in MH 257	Hydro (07/23/2012)

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF AGOURA HILLS (Y0TV0910A)**  
as of 07/21/10

Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
40	4121	1065-0341	1065-0628	CANWOOD ST	Infiltration runner	CSMD will repair MH.
41	4121	1065-0555	1065-0550	FAIRHAVEN CT	Infiltration runner	CSMD will repair MH.
42	4121	1065-0573	1065-0572	BERTRAND DR	Infiltration runner	CSMD will repair MH.
43	4121	1065-0580	1065-0579	EDINBURGH CT	Infiltration runner	CSMD will repair MH.
44	4111	1090-0319	1090-0321	EASEMENT	Alignment down	No action needed.
45	4100	1065-0184	1065-0346	RAINBOW VIEW DR	Deposit in MH 346	Hydro (10/29/2012)
46	4100	1065-0274	1065-0273	Private Rd	Deposit near MH 273	Hydro (07/23/2012)
47	4100	1065-0574	1065-0573	BERTRAND DR	Deposit in MH 573	Hydro (12/21/2012)
48	4100	1065-0612	1065-0613	EMERSON CT	Deposit	Hydro (12/21/2012)
49	4100	1066-0029	1065-0343	CANWOOD ST	Deposit attached	Hydro (05/24/2013)
50	4100	1090-0008	1090-0009	MEADOW HAVEN DR	Deposit; debris	Hydro (12/10/2012)
51	4100	1090-0225	1090-0224	DEEP SHADOW DR	Deposit in MH 224	Hydro (12/07/2012)
52	4100	1065-0297	1065-0296	EASEMENT	Alignment down	No action needed.
53	4100	1065-0628	1065-0342	CANWOOD ST	Infiltration runner	CSMD will repair MH.
54	4100	1066-0060	1066-0061	EASEMENT	Alignment down	No action needed.
55	4100	1090-0332	1090-0333	EASEMENT	Alignment up	No action needed.
56	3B27	1090-0021	1090-0022	SHADYCREEK DR	Sag	Hydro (12/10/2012)
57	3A00	1090-0024	1090-0039	LARO DR	Grease	Hydro (12/10/2012)
58	3A00	1090-0040	1090-0041	RUSTLING OAKS DR	Sag	Hydro (12/10/2012)
59	372C	1090-0022	1090-0023	SHADYCREEK DR	Sag	Hydro (12/10/2012)
60	3600	1090-0039	1090-0040	RUSTLING OAKS DR	Grease	Hydro (12/10/2012)
61	3500	1090-0033	1090-0034	WOODCREEK CT	Deposit	Hydro (12/07/2012)
62	332J	1065-0192	1065-0179	LARBOARD LN	Grease; infiltration dripper	Hydro (10/29/2012)
63	3312	1090-0048	1090-0047	CATHERWOOD CT	Small deposit	No action needed.
64	3300	1065-0587	1065-0588	TRAILCREEK DR	Small deposit	No action needed.
65	322I	1065-0193	1065-0194	LARBOARD LN	Grease	Hydro (10/29/2012)
66	3216	1065-0206	1065-0207	DOVETAIL DR	Root in lateral	Lateral notice will be sent to property owner.
67	3214	1065-0211	1065-0212	DOVETAIL DR	Root in lateral	Lateral notice will be sent to property owner.
68	3212	1065-0004	1065-0003	ALFONSO DR	Light grease	No action needed.
69	3200	1065-0616	1065-0523	KIMBERLY DR	Sag	Hydro (12/21/2012)
70	3200	1065-0570	1065-0569	WEeping WILLOW DR	Infiltration dripper	No action needed.
71	312T	1065-0193	1065-0192	LARBOARD LN	Grease	Hydro (10/29/2012)
72	312R	1065-0203	1065-0202	SAND TRAP DR	Grease	Hydro (07/20/2012)
73	312G	1065-0249	1065-0255	BRIDLE GLEN ST	Camera underwater	Hydro (07/23/2012)
74	312D	1066-0078	1066-0076	Private Rd	Small deposit	No action needed.
75	312C	1090-0208	1090-0209	TRAILWAY LN	Small deposit	No action needed.
76	312A	1090-0360	1090-0354	BAINBRIDGE CT	Small deposit	No action needed.
77	3129	1065-0202	1065-0201	SAND TRAP DR	Infiltration dripper	No action needed.
78	3126	1065-0432	1065-0431	MIDDLE CREST DR	Infiltration dripper	No action needed.

**ENCLOSURE 2**  
**QUICK MAINTENANCE RATING REPORT PRIORITY LIST**  
**CITY OF AGOURA HILLS (Y0TV0910A)**  
as of 07/21/10

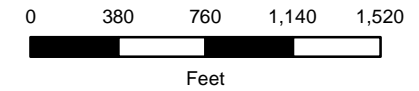
Item No.	QMR	Start MH	End MH	Street	Observation	Corrective Action Taken
79	3125	1065-0547	1090-0364	GERMANIA CT	Debris	Hydro (12/21/2012)
80	3125	1065-0613	1065-0614	EMERSON CT	Deposit	Hydro (12/21/2012)
81	3122	1065-0618	1065-0617	KIMBERLY DR	Small deposit	No action needed.
82	3121	1065-0003	1065-0002	ALFONSO DR	Infiltration dripper	No action needed.
83	3121	1065-0314	1065-0003	LUIS DR	Infiltration dripper	No action needed.
84	3121	1065-0569	1065-0568	WEeping WILLOW DR	Infiltration dripper	No action needed.
85	3121	1065-0730	1065-0731	LAKE LINDERO DR	Small deposit near MH 730	No action needed.
86	3112	1065-0279	1065-0263	STRAWBERRY HILL DR	Deposit attached	Hydro (07/23/2012)
87	3112	1090-0328	1090-0327	Private Rd	Small deposit	No action needed.
88	3112	1090-0343	1090-0342	QUAIL RUN DR	Small deposit	No action needed.
89	3100	1065-0442	1065-0441	MEADOWMIST WY	Deposit in MH 441	Hydro (12/14/2012)
90	3100	1065-0468	1065-0469	CAMBRIDGE CT	Deposit; debris	Hydro (12/17/2012)
91	3100	1065-0476	1065-0477	GREY ROCK RD	Deposit attached	Hydro (12/17/2012)
92	3100	1065-0556	1065-0555	FAIRHAVEN CT	Deposit near MH 555	Hydro (12/17/2012)
93	3100	1065-0707	1065-0706	TRAIL CREEK DR	Deposit	Hydro (12/10/2012)
94	3100	1090-0312	1090-0313	Private Rd	Debris; sag	Hydro (12/07/2012)
95	3100	1065-0207	1065-0208	LAKE LINDERO DR	Small root	No action needed.
96	3100	1065-0277	1065-0338	Private Rd	Small deposit	No action needed.
97	3100	1065-0496	1065-0495	KINGHAM CT	Infiltration dripper	No action needed.
98	3100	1065-0566	1065-0565	CRESTHAVEN CT	Infiltration dripper	No action needed.
99	3100	1065-0575	1065-0574	BERTRAND DR	Small deposit	No action needed.
100	3100	1065-0577	1065-0574	BRAEMAR CT	Small deposit near MH 574	No action needed.
101	3100	1065-0578	1065-0577	BRAEMAR CT	Small deposit near MH 577	No action needed.
102	3100	1066-0031	1066-0032	CANWOOD ST	Infiltration dripper	No action needed.
103	3100	1090-0175	1090-0174	GLEAM CT	Small deposit	No action needed.

# ENCLOSURE 2

## CCTV PROJECT YOTV0910A

### AGOURA HILLS

#### QUICK MAINTENANCE RATING (QMR)



#### Legend

##### SMD Sanitary Sewers

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

##### SMD Manholes

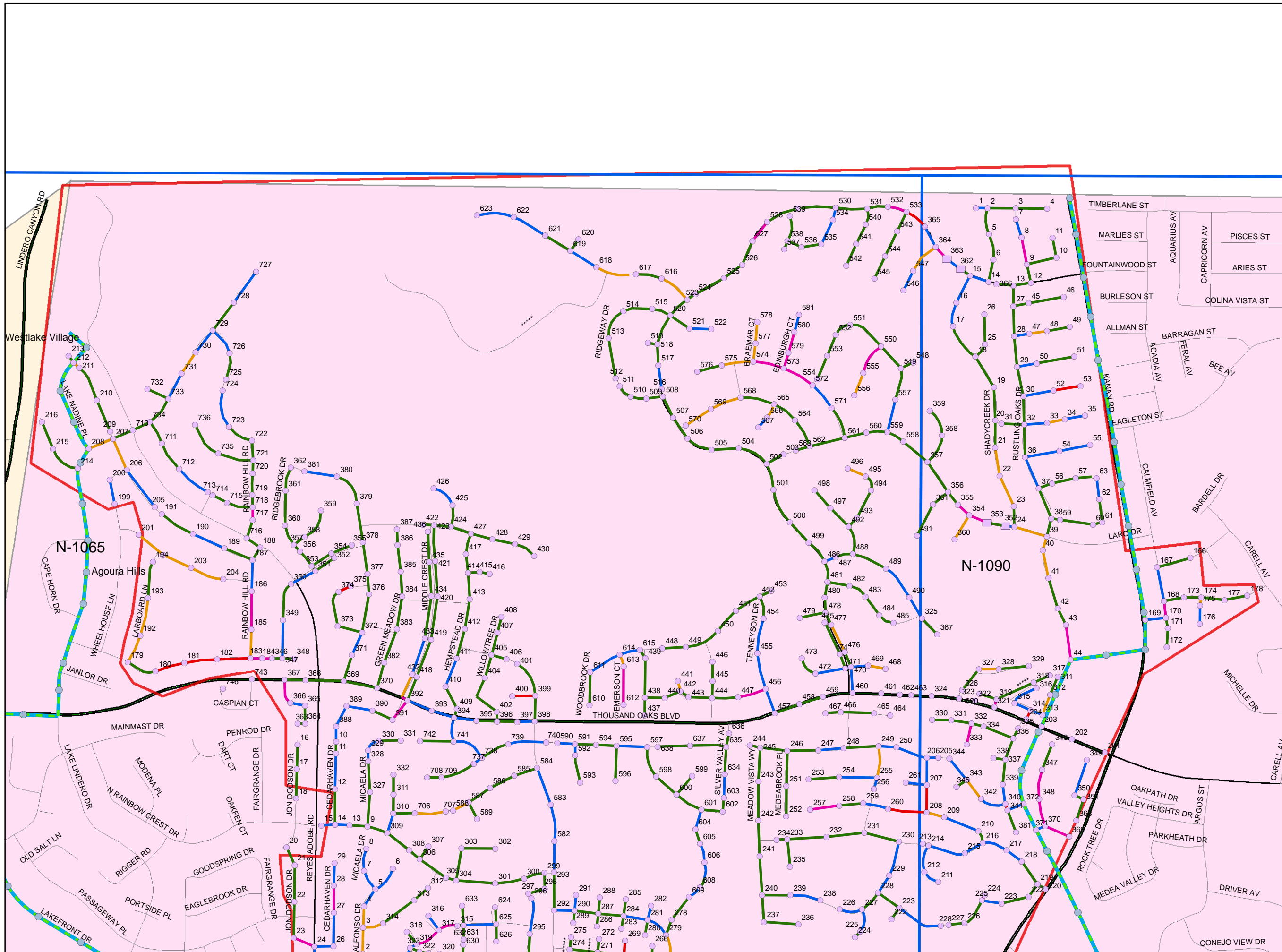
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

##### Maintained by Others:

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

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JUNE 2013



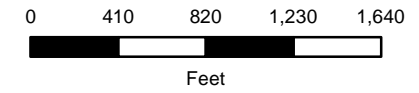
# ENCLOSURE 2

## CCTV PROJECT

# YOTV0910A

## AGOURA HILLS

**QUICK  
MAINTENANCE  
RATING  
(QMR)**



### Legend

#### SMD Sanitary Sewers

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

#### SMD Manholes

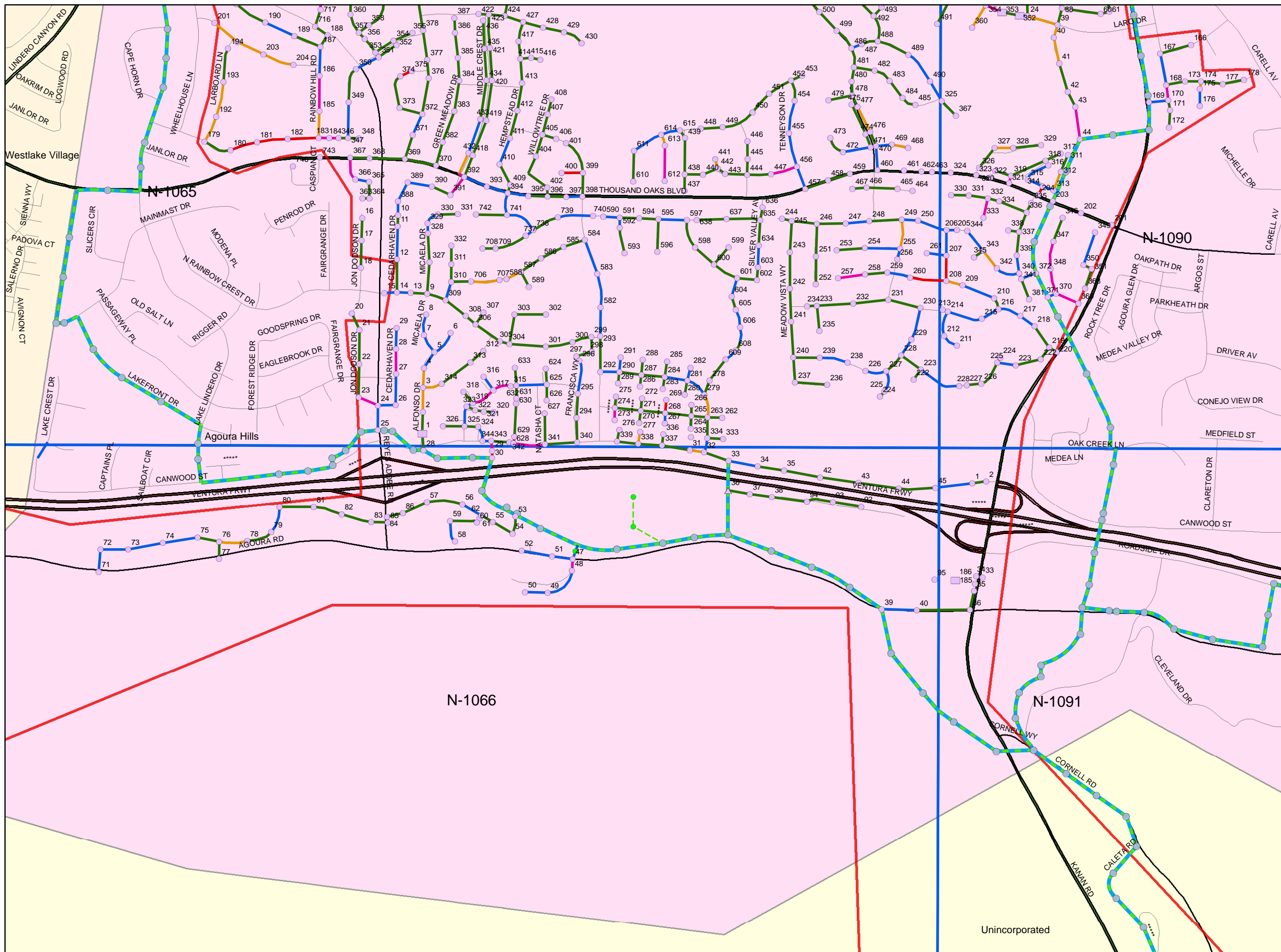
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

#### Maintained by Others:

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

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JUNE 2013



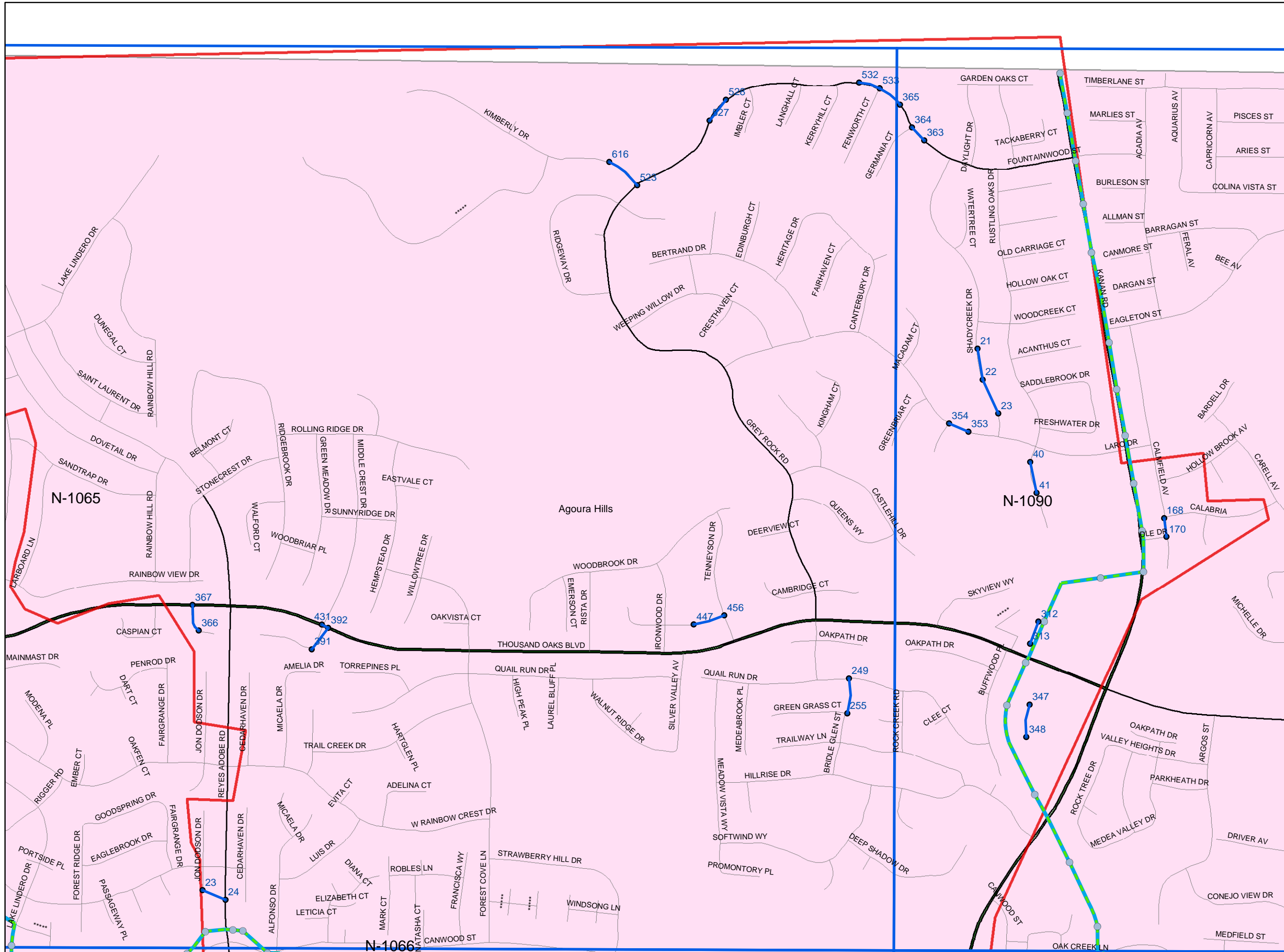
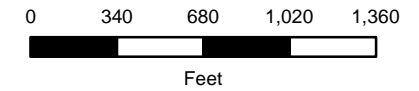
**ENCLOSURE 2**  
**HIGH WATER LEVELS**  
**CITY OF AGOURA HILLS (Y0TV0910A)**  
as of 07/21/10

Item No.	QMR	START MH	END MH	STREET	OBSERVATION	
1	5141	1065-0533	1090-0365	FOUNTAINWOOD ST	Camera underwater	(30% - 70%): 180' - 200'
2	5100	1065-0528	1065-0527	FOUNTAINWOOD ST	Camera underwater	(30% - 70%): 42' - 97'
3	4C26	1065-0392	1065-0391	LANGFIELD CT	Camera underwater	(50% - 70%): 44' - 92'
4	4B2J	1090-0168	1090-0170	CALMFIELD AV	Camera underwater	(50% - 70%): 25' - 100'
5	4922	1065-0447	1065-0456	MEADOWMIST WY	Camera underwater	(30% - 50%): start MH - 14'
6	4135	1090-0354	1090-0353	LARO DR	Camera underwater	(30% - 50%): 33' - 55', 68' - 100', 138' - 198'
7	4134	1065-0431	1065-0392	THOUSAND OAKS BV	Camera underwater	(30% - 70%): 25' - 42'
8	4134	1065-0532	1065-0533	FOUNTAINWOOD ST	Camera underwater	(30% - 70%): start MH - 20', 146' - 160'
9	412B	1090-0364	1090-0363	FOUNTAINWOOD ST	Watermark	
10	412A	1065-0367	1065-0366	HURFORD CT	Watermark	
11	412A	1090-0347	1090-0348	Private Rd	Watermark	
12	4122	1065-0023	1065-0024	EASEMENT	Sag	(30% - 60%): 140' - 200'
13	3B27	1090-0021	1090-0022	SHADYCREEK DR	Sag	(50%): 124' - 150'
14	3A00	1090-0040	1090-0041	RUSTLING OAKS DR	Sag	(30% - 50%): 54' - 106'
15	372C	1090-0022	1090-0023	SHADYCREEK DR	Sag	(50%): 7' - 30', 180' - 195'
16	3200	1065-0616	1065-0523	KIMBERLY DR	Sag	(30% - 70%): 118' - 125'
17	312G	1065-0249	1065-0255	BRIDLE GLEN ST	Camera underwater	(30% - 50%): 245' - 260'
18	3100	1090-0312	1090-0313	Private Rd	Sag due to debris	(30% - 50%): 118' - 145'

# ENCLOSURE 2

## CCTV PROJECT YOTV0910A AGOURA HILLS

### HIGH WATER LEVELS



### Legend

- High Water Levels
- MH: High Water Levels
- SMD Manholes
  - Other
- Manhole Type
  - Standard
  - DROP
  - Shallow
  - Trap
  - Siphon
- SMD Pump Stations
- SMD Treatment Plants
- Maintained by Others:
  - Trunk Sewerlines
  - Non SMD Sanitary Sewers
  - Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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**ENCLOSURE 2**  
**INFILTRATION**  
**CITY OF AGOURA HILLS (Y0TV0910A)**

as of 07/21/10

ITEM NO.	QMR	START MH	END MH	STREET	OBSERVATION	PROPOSED CORRECTIVE METHOD	LENGTH OF REPAIR (FT)
1	523C	1066-0029	1066-0030	EASEMENT	Infiltration runner: 6'	Lining: MH to MH	108
2	5141	1065-0629	1065-0628	EASEMENT	Infiltration runner in MH 628	Chemical Grouting	
3	5131	1090-0207	1090-0208	ROCK CREEK RD	Infiltration dripper: 244'	Infiltration is minimal. No action needed.	
4	5100	1090-0052	1090-0053	HOLLOW OAK CT	Infiltration runner: 270'	Lining: MH to MH	270
5	5100	1090-0340	1090-0341	BUFFWOOD PL	Infiltration runner in MH 340	Chemical Grouting	
6	4221	1065-0579	1065-0573	EDINBURGH CT	Infiltration runner in MH 573	Chemical Grouting	
7	4131	1065-0718	1065-0717	RAINBOW HILL RD	Infiltration dripper in MH 717	Infiltration is minimal. No action needed.	
8	4131	1090-0043	1090-0044	EASEMENT	Infiltration dripper in MH 44	Infiltration is minimal. No action needed.	
9	412J	1065-0028	1065-0027	CEDARHAVEN DR	Infiltration runner: 293'	Infiltration is minimal. No action needed.	
10	412D	1065-0186	1065-0185	RAINBOW HILL RD	Infiltration runner: 349'	Lining: MH to MH	352
11	4124	1065-0315	1065-0317	ROBLES DR	Infiltration runner in MH 317	Chemical Grouting	
12	4124	1090-0348	1090-0370	Private Rd	Infiltration runner near MH 370	Chemical Grouting	
13	4123	1065-0317	1065-0319	ROBLES DR	Infiltration runner in MH 317	Chemical Grouting	
14	4121	1065-0341	1065-0628	CANWOOD ST	Infiltration runner in MH 628	Chemical Grouting	
15	4121	1065-0555	1065-0550	FAIRHAVEN CT	Infiltration runner in MH 555	Chemical Grouting	
16	4121	1065-0573	1065-0572	BERTRAND DR	Infiltration runner in MH 573	Chemical Grouting	
17	4121	1065-0580	1065-0579	EDINBURGH CT	Infiltration runner in MH 579	Chemical Grouting	
18	4100	1065-0628	1065-0342	CANWOOD ST	Infiltration runner in MH 628	Chemical Grouting	
19	332J	1065-0192	1065-0179	LARBOARD LN	Infiltration dripper: 83', 102'	Infiltration is minimal. No action needed.	
20	322I	1065-0193	1065-0194	LARBOARD LN	Infiltration dripper: 1'	Infiltration is minimal. No action needed.	
21	3212	1065-0004	1065-0003	ALFONSO DR	Infiltration dripper in MH 3	Infiltration is minimal. No action needed.	
22	3200	1065-0570	1065-0569	WEeping WILLOW DR	Infiltration dripper near MH 569	Infiltration is minimal. No action needed.	
23	3129	1065-0202	1065-0201	SAND TRAP DR	Infiltration dripper in MH 202	Infiltration is minimal. No action needed.	
24	3126	1065-0432	1065-0431	MIDDLE CREST DR	Infiltration dripper: 237'	Infiltration is minimal. No action needed.	
25	3121	1065-0003	1065-0002	ALFONSO DR	Infiltration dripper in MH 3	Infiltration is minimal. No action needed.	
26	3121	1065-0314	1065-0003	LUIS DR	Infiltration dripper in MH 3	Infiltration is minimal. No action needed.	
27	3121	1065-0569	1065-0568	WEeping WILLOW DR	Infiltration dripper near MH 568	Infiltration is minimal. No action needed.	
28	3100	1065-0496	1065-0495	KINGHAM CT	Infiltration dripper in MH 496	Infiltration is minimal. No action needed.	
29	3100	1065-0566	1065-0565	CRESTHAVEN CT	Infiltration dripper near MH 566	Infiltration is minimal. No action needed.	
30	3100	1066-0031	1066-0032	CANWOOD ST	Infiltration dripper in MH 32	Infiltration is minimal. No action needed.	

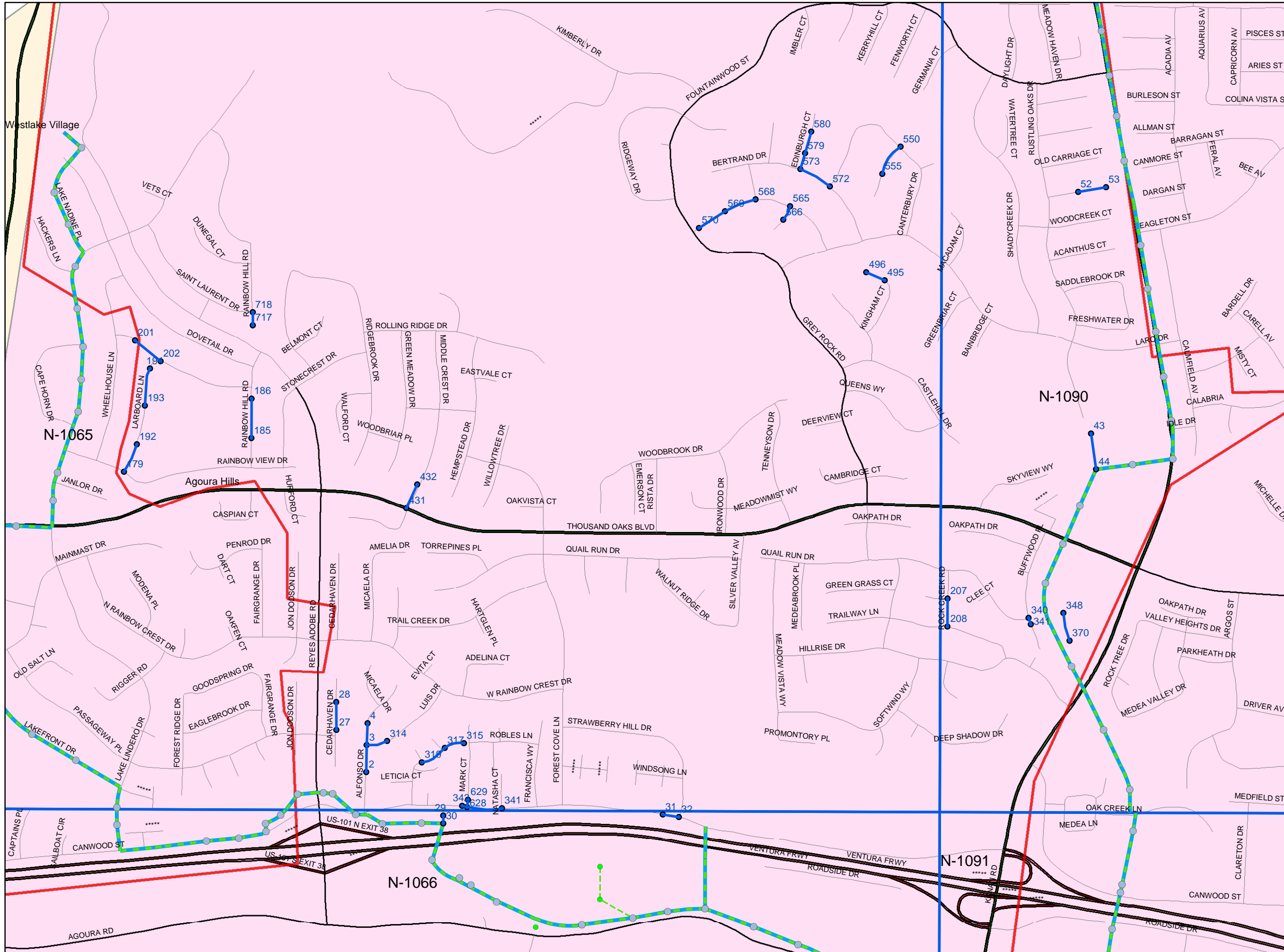
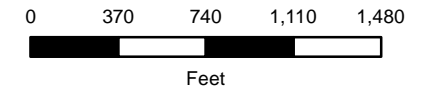
# ENCLOSURE 2

## CCTV PROJECT

### YOTV0910A

#### AGOURA HILLS

### INFILTRATION



### Legend

- Infiltration
- MH: Infiltration
- SMD Manholes**
- Other
- Manhole Type**
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants
- Maintained by Others:**
- Trunk Sewerlines
- Non SMD Sanitary Sewers
- Non SMD Maintained MH
- SMD Operations Maps
- CCTV PROJECT AREA

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GAIL FARBER, Director

# COUNTY OF LOS ANGELES

## DEPARTMENT OF PUBLIC WORKS

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

900 SOUTH FREMONT AVENUE  
ALHAMBRA, CALIFORNIA 91803-1331  
Telephone: (626) 458-5100  
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:  
P.O. BOX 1460  
ALHAMBRA, CALIFORNIA 91802-1460

{Date}

IN REPLY PLEASE

REFER TO FILE:

SM-1

Current Property Owner

Dear Property Owner:

### SEWER LATERAL ROOT INTRUSION

As the agency responsible for the maintenance of the sanitary sewer system in your area, the County of Los Angeles Consolidated Sewer Maintenance District (District) is providing you with this courtesy notice informing you that the sewer lateral serving the property located at XXXX, requires maintenance per **County Code 20.24.080 Maintenance of Sewer Laterals.**

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

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

Since the CCTV inspection, the sewer mainline has been cleaned and blockages from root growth have been removed; however, the root blockage in your sewer lateral is still present. As the property owner, you are responsible for the entire length of the sewer lateral, which includes the portion that extends beyond the property line into the public right of way. We request that you contact a qualified plumbing contractor to service your sewer lateral within 90 days to remove roots and any other obstructions that may cause a sewage backup.

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

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

After your lateral has been serviced, please notify Mr. Fernando Villaluna, Sewer Maintenance Division, at (626) 300-3380 or [fvillaluna@dpw.lacounty.gov](mailto:fvillaluna@dpw.lacounty.gov).

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

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

Very truly yours,

GAIL FARBER  
Director of Public Works

RAJESH PATEL  
Assistant Deputy Director  
Sewer Maintenance Division

XXXX

Enc.

XXXX  
Roots at Lateral Connection



## Minimizing Sewer Overflows and Damage to Your Home

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

### SEWER LATERALS – AREAS OF RESPONSIBILITY



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

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

The three methods we suggest are:

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

## ENCLOSURE 3:

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

**ENCLOSURE 3**  
**QUICK STRUCTURAL RATING REPORT PRIORITY LIST**  
**AGOURA HILLS (Y0TV0910A)**  
as of 07/21/10

ITEM NO.	QSR	START MH	END MH	STREET	OBSERVATION: LOCATION	PROPOSED CORRECTIVE ACTION	LENGTH OF REPAIR (FT)
1	5A00	1066-0054	1066-0053	EASEMENT	Fractures: 113' - 158'	Lining: MH to MH	186
2	5100	1065-0448	1065-0449	WOODBROCK DR	Broken with visible soil: 160'	Sectional Liner (Completed 08/22/11)	
3	5100	1065-0576	1065-0575	BERTRAND DR	Broken with visible soil: 233'	Sectional Liner (Completed 08/22/11)	
4	5100	1090-0052	1090-0053	HOLLOW OAK CT	Broken with infiltration: 270'	Lining: MH to MH	270
5	4131	1065-0407	1065-0405	WILLOWBROOK DR	Broken void visible: 74'	Structural integrity in tact. No action needed.	
6	4131	1090-0311	1090-0312	Private Rd	Fractures: 86' - 92'	Structural integrity in tact. No action needed.	

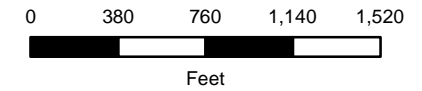


# ENCLOSURE 3

## CCTV PROJECT YOTV0910A

### AGOURA HILLS

#### QUICK STRUCTURAL RATING (QSR)



#### Legend

##### SMD Sanitary Sewers

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

##### SMD Manholes

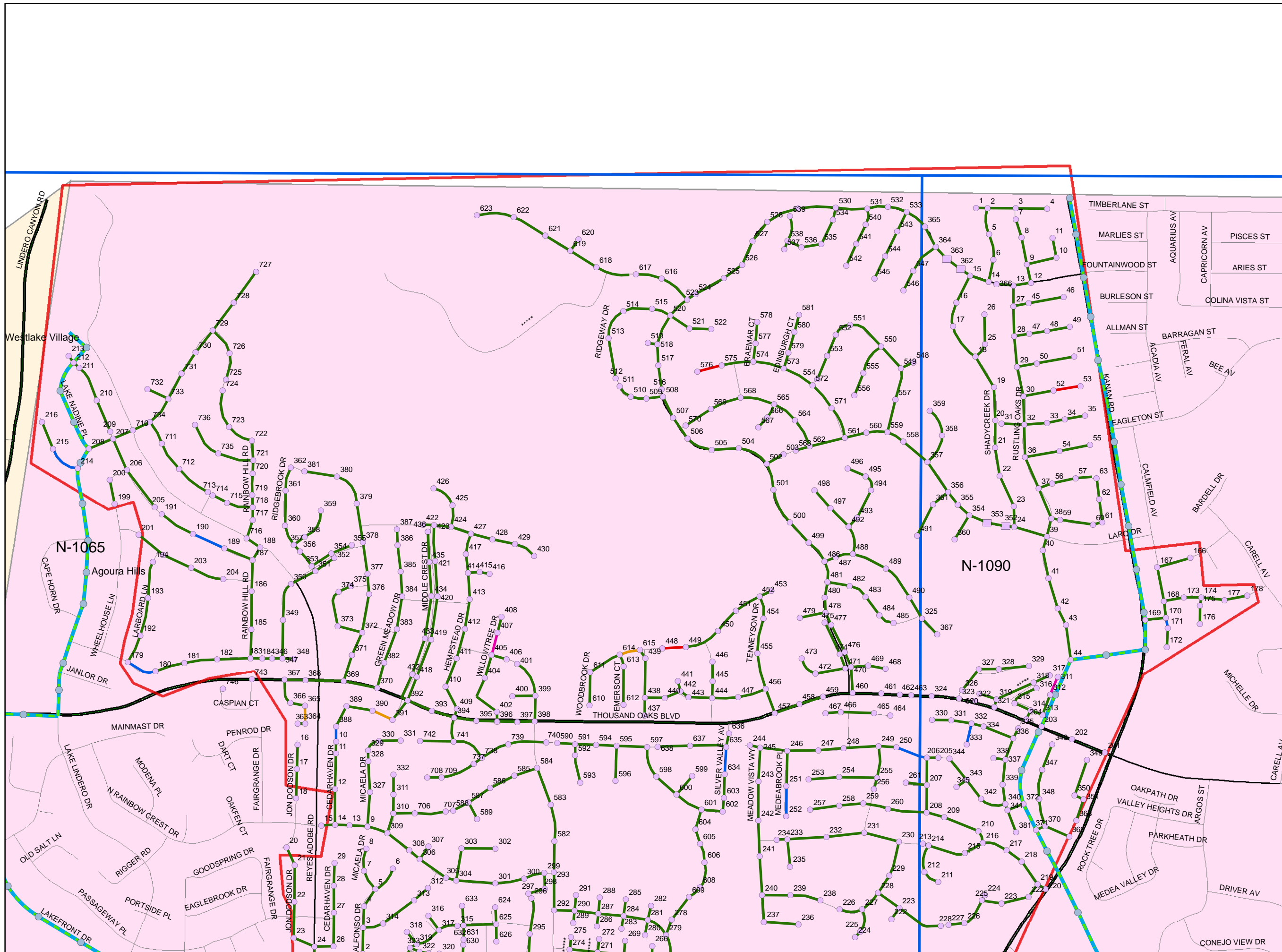
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

##### Maintained by Others:

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

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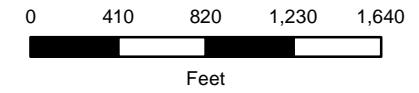
# ENCLOSURE 3

## CCTV PROJECT

### YOTV0910A

### AGOURA HILLS

**QUICK  
STRUCTURAL  
RATING  
(QSR)**



#### Legend

##### SMD Sanitary Sewers

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

##### SMD Manholes

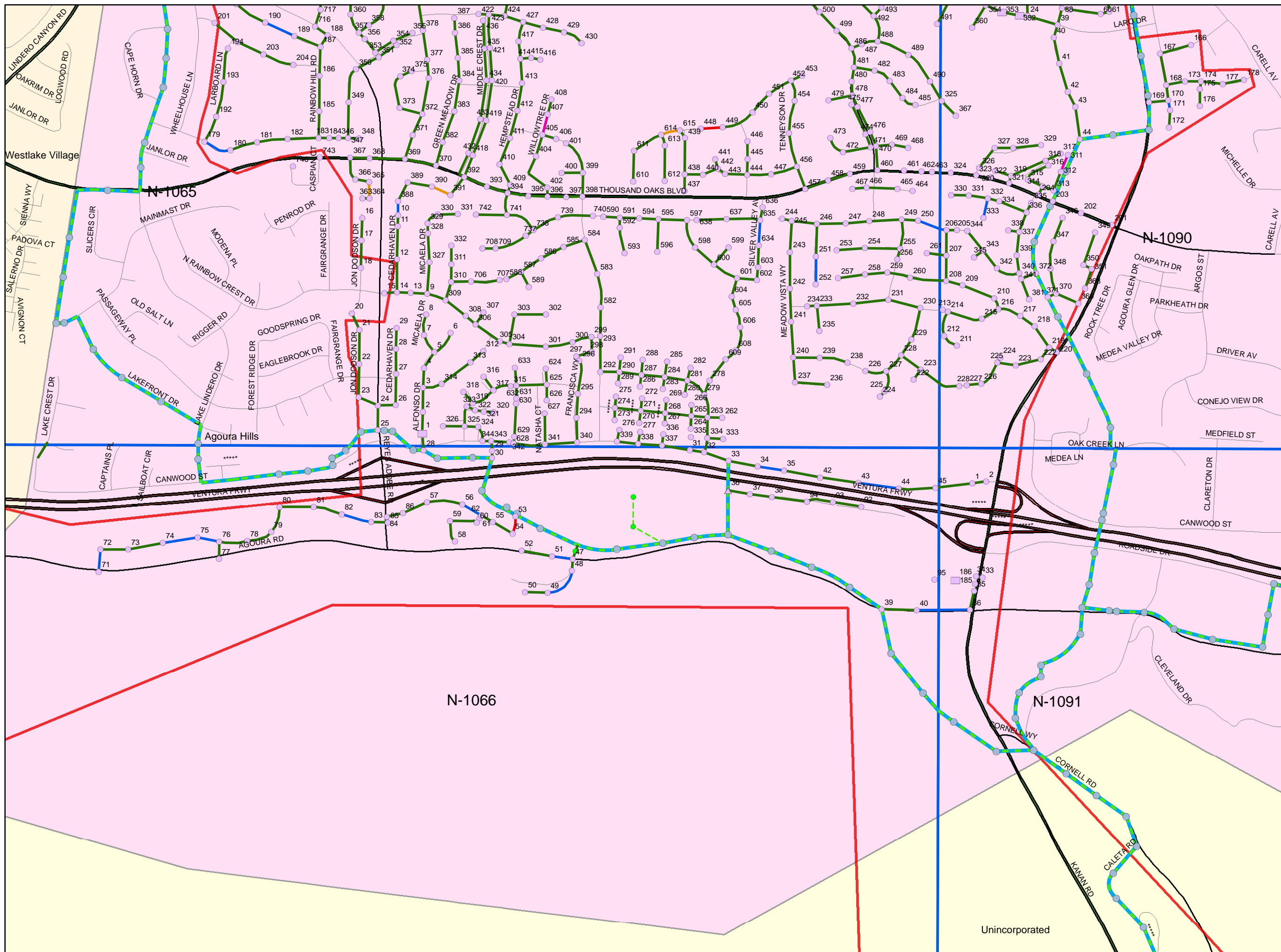
- Other
- Standard
- DROP
- Shallow
- Trap
- Siphon
- SMD Pump Stations
- SMD Treatment Plants

##### Maintained by Others:

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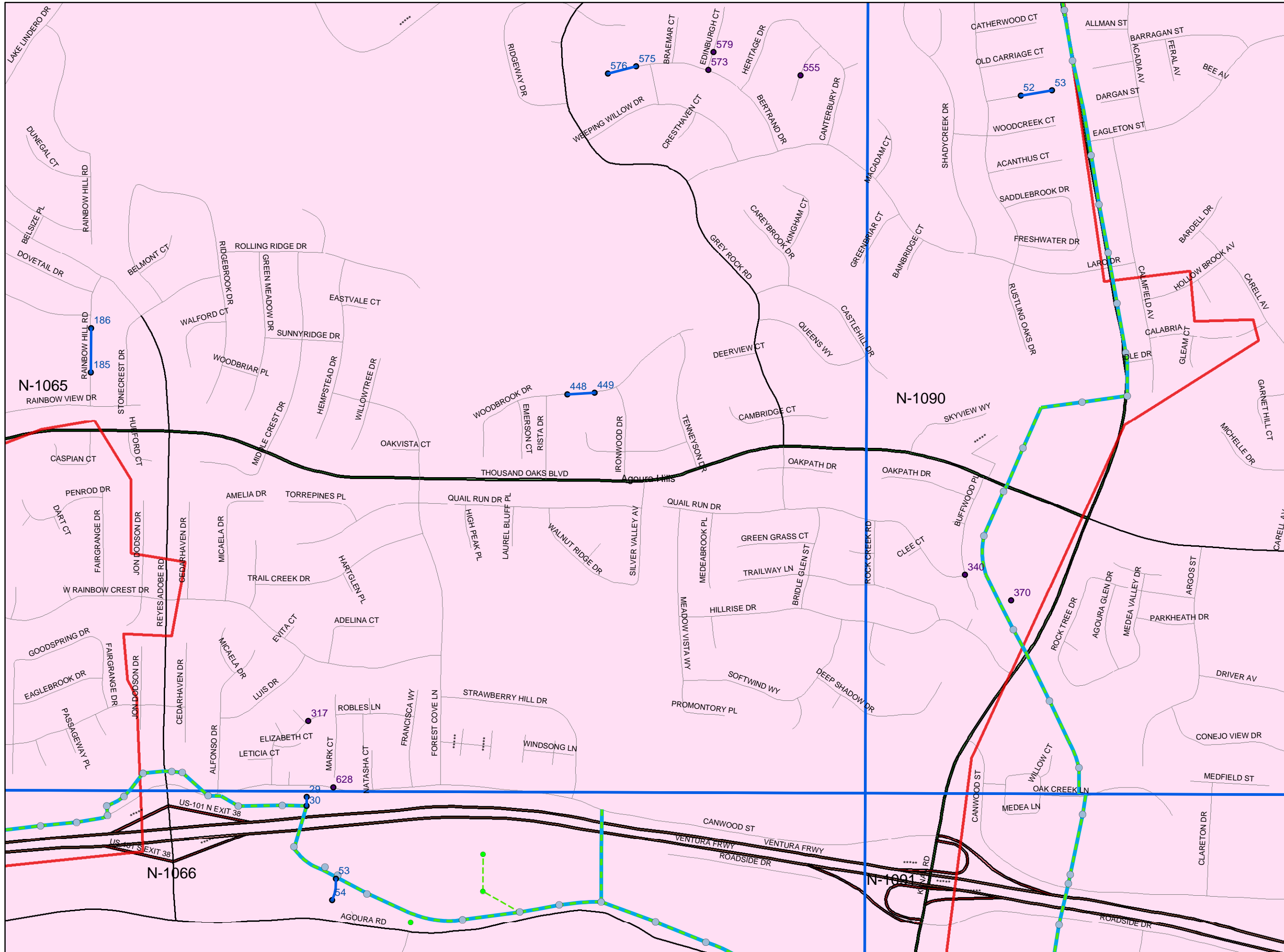
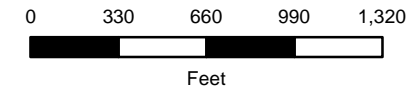
Unincorporated

# ENCLOSURE 3

## CCTV PROJECT YOTV0910A

### AGOURA HILLS

#### LINING & CHEMICAL GROUTING



#### Legend

- Lining
- MH: Chemical Grouting
- SMD Manholes**
- Other
- Manhole Type**
- Standard
- △ DROP
- Shallow
- ◇ Trap
- ⊗ Siphon
- Ⓜ SMD Pump Stations
- Ⓜ SMD Treatment Plants
- Maintained by Others:**
- Trunk Sewerlines
- - - Non SMD Sanitary Sewers
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JUNE 2013

## ENCLOSURE 4:

Infrastructure Inspection Reports  
for Grades 4 and 5



## Inspection report

Date: <b>20100921</b>	P.O.#: <b>Y0TV0910A</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>3415</b>	PSR: <b>513373</b>
Total Pipe Length: <b>190.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>AGH</b>	Clean Date:	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>1066</b>

Street: <b>EASEMENT</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1066-0054</b>
City: <b>AGH</b>	Year Renewed:	End MH: <b>1066-0053</b>
Location Code: <b>Easement/Right of Way</b>	Tap/Media #: <b>R311-119</b>	pipe length: <b>186.3 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 12"/12"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0053/1066-0054/1066</b>	Lining Method:
	Category:

Remark::

1:475	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1066-0054	00:00:21	6	
	8.90	Water Level, 5 %, within 8 inch: NO	00:01:49	7	M 2
	15.50	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 6'	00:02:40	8	
	113.00	S1 Broken, from 8 to 4 o'clock, within 8 inch: NO, Start	00:05:37	9, b	S 5
	159.10	F1 Broken, from 8 to 4 o'clock, within 8 inch: NO, End	00:07:50	11, b	S 5
	186.30	Manhole, within 8 inch: NO, Remarks: 1066-0053	00:09:44	13	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5200	2100	10	2	12	5	2	4



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

## Inspection report

Date: <b>20100616</b>	P.O.#: <b>Y0TV0910A</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>2879</b>	PSR: <b>33482</b>
Total Pipe Length: <b>216.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>AGH</b>	Clean Date: <b>06/11/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>1065</b>

Street: <b>WOODBROCK DR</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1065-0448</b>
City: <b>AGH</b>	Year Renewed:	End MH: <b>1065-0449</b>
Location Code: <b>Light Highway</b>	Tap/Media #: <b>R311-091</b>	pipe length: <b>213.7 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Reinforced Plastic Pipe (Truss Pipe)</b> Pipe Length:
Drain. Area: <b>0448/1065-0449/1065</b>	Lining Method:
	Category:

Remark::

1:525	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1065-0448	00:00:26	501	
	6.40	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:19	502	
	13.00	Water Level, 5 %, within 8 inch: NO	00:01:42	503	M 2
	25.90	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 13'	00:02:17	504	
	71.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:03:30	505	
	160.60	Broken Soil Visible, from 12 to 2 o'clock, within 8 inch: NO	00:06:46	506, b	S 5
	177.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:45	508	
	213.70	Manhole, within 8 inch: NO, Remarks: 1065-0449	00:09:08	509	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2100	5	2	7	5	2	3.5



## Inspection report

Date: <b>20100617</b>	P.O.#: <b>Y0TV0910A</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>2905</b>	PSR: <b>33381</b>
Total Pipe Length: <b>231.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>AGH</b>	Clean Date: <b>06/11/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>1065</b>

Street: <b>BERTRAND DR</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1065-0576</b>
City: <b>AGH</b>	Year Renewed:	End MH: <b>1065-0575</b>
Location Code: <b>Light Highway</b>	Tap/Media #: <b>R311-092</b>	pipe length: <b>236.4 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Reinforced Plastic Pipe (Truss Pipe)</b> Pipe Length:
Drain. Area: <b>0575/1065-0576/1065</b>	Lining Method:
	Category:

Remark::

1:600	position	observation	MPEG	photo	grade
	<b>1065-0576</b>				
	0.00	Manhole, within 8 inch: NO, Remarks: 1065-0576	00:00:26	756	
	5.80	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:11	757	
	9.40	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:34	758	
	13.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:58	759	
	22.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:28	760	
	33.00	Water Level, 5 %, within 8 inch: NO	00:02:57	761	M 2
	46.00	General Observation, within 8 inch: NO, Remarks: Pipe eJoint Length 13'	00:03:32	762	
	56.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:58	763	
	63.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:26	764	
	158.90	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:38	765	
	197.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:43	766	
	233.50	Broken Soil Visible, from 11 to 1 o'clock, within 8 inch: NO	00:10:32	767, b	S 5
	236.40	Manhole, within 8 inch: NO, Remarks: 1065-0575	00:11:46	769	
	<b>1065-0575</b>				

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	2100	5	2	7	5	2	3.5



## Inspection report

Date: <b>20100623</b>	P.O.#: <b>Y0TV0910A</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>3049</b>	PSR: <b>33218</b>
Total Pipe Length: <b>252.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>AGH</b>	Clean Date: <b>06/18/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>1090</b>

Street: <b>HOLLOW OAK CT</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1090-0052</b>
City: <b>AGH</b>	Year Renewed:	End MH: <b>1090-0053</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-096</b>	pipe length: <b>270.7 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Reinforced Plastic Pipe (Truss Pipe)</b> Pipe Length:
Drain. Area: <b>0052/1090-0053/1090</b>	Lining Method:
	Category:

Remark::

1:675	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1090-0052	00:00:27	465	
	15.20	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:01:25	466	
	29.60	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:01:59	467	
	32.30	Water Level, 5 %, within 8 inch: NO	00:02:16	468	M 2
	44.50	General Observation, within 8 inch: NO, Remarks: Pipe joint Length 13'	00:03:03	469	
	54.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:29	470	
	105.30	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:04:49	471	
	147.60	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:06:03	472	
	167.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:06:48	473	
	173.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:07:15	474	
	236.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:00	475	
	265.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:56	476	
	267.70	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:17	477	
	269.20 S1	Deposits Attached Other, from 4 to 8 o'clock, 20 %, within 8 inch: NO, Start	00:10:57	478, b	M 3
	270.50	Infil Runner, at 2 o'clock, within 8 inch: NO	00:11:35	480, b	M 4
	270.50	Broken Soil Visible, from 12 to 2 o'clock, within 8 inch: NO	00:12:39	482, b	S 5
	270.70	Abandoned Survey, within 8 inch: NO, Remarks: Due To Deposits Attached	00:15:15	484, b	
	270.70 F1	Deposits Attached Other, from 4 to 8 o'clock, 20 %, within 8 inch: NO, End	00:16:18	486	M 3

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	4132	5	12	17	5	3	3.4





## Inspection report

Date: <b>20100623</b>	P.O.#: <b>Y0TV0910A</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>3048</b>	PSR: <b>33218</b>
Total Pipe Length: <b>252.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>AGH</b>	Clean Date: <b>06/18/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>1090</b>

Street: <b>HOLLOW OAK CT</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1090-0053</b>
City: <b>AGH</b>	Year Renewed:	End MH: <b>1090-0052</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>R311-096</b>	pipe length: <b>1 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Reinforced Plastic Pipe (Truss Pipe)</b> Pipe Length:
Drain. Area: <b>0052/1090-0053/1090</b>	Lining Method:
	Category:

Remark::

1:25	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1090-0053	00:00:27	461	
	1.00	Deposits Attached Other, from 3 to 9 o'clock, 50 %, within 8 inch: NO, Remarks: From Mh Channel	00:01:47	462, b	M 5
	1.00	Abandoned Survey, within 8 inch: NO, Remarks: Due To Deposits Attached	00:02:53	464	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	5100	0	5	5	0	5	5



## Inspection report

Date: <b>20100616</b>	P.O.#: <b>Y0TV0910A</b>	Weather: <b>Dry</b>	Surveyed By: <b>Rigo Alvarez</b>	section number: <b>2876</b>	PSR: <b>33557</b>
Total Pipe Length: <b>211.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>AGH</b>	Clean Date: <b>06/11/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #: <b>1065</b>

Street: <b>WILLOWBROOK DR</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1065-0407</b>
City: <b>AGH</b>	Year Renewed:	End MH: <b>1065-0405</b>
Location Code: <b>Light Highway</b>	Tap Media #: <b>R311-091</b>	pipe length: <b>241.6 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Reinforced Plastic Pipe (Truss Pipe)</b> Pipe Length:
Drain. Area: <b>0405/1065-0407/1065</b>	Lining Method:
	Category:

Remark::

1:600	position	observation	MPEG	photo	grade
	0.00	Manhole, within 8 inch: NO, Remarks: 1065-0407	00:00:28	475	
	8.60	Water Level, 5 %, within 8 inch: NO	00:1:10	476	M 2
	21.20	General Observation, within 8 inch: NO, Remarks: Pipe Joint Length 13'	00:01:47	477	
	45.90	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:02:34	478	
	55.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:03:09	479	
	74.30	Roots Fine Joint, from 8 to 9 o'clock, within 8 inch: YES	00:04:11	480	
	74.30	Broken, from 7 to 9 o'clock, within 8 inch: YES	00:04:44	481, b	S 4
	76.30	Broken, from 7 to 8 o'clock, within 8 inch: YES	00:05:51	483, b	S 4
	76.40	Roots Fine Joint, from 10 to 4 o'clock, within 8 inch: YES	00:06:30	485, b	
	124.10	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:07:58	487	
	129.80	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:08:30	488	
	180.20	Tap Factory Active, at 3 o'clock, 6", within 8 inch: NO	00:09:58	489	
	199.00	Tap Factory Active, at 9 o'clock, 6", within 8 inch: NO	00:10:46	490	
	241.60	Manhole, within 8 inch: NO, Remarks: 1065-0405	00:12:19	491	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4200	2100	8	2	10	4	2	3.33



## Inspection report

Date: <b>20100709</b>	P.O.#: <b>Y0TV0910A</b>	Weather: <b>Dry</b>	Surveyed By: <b>Martin Garcia</b>	section number: <b>3248</b>	PSR: <b>32882</b>
Total Pipe Length: <b>180.00</b>	Survey Customer: <b>LACDPW</b>	System Owner: <b>AGH</b>	Clean Date: <b>07/08/2010</b>	Pre-Cleaned: <b>Jetting</b>	Map Grid #:

Street: <b>PRIVATE RD</b>	Flow Control: <b>Not Controlled</b>	Start MH: <b>1090-0311</b>
City: <b>AGH</b>	Year Renewed:	End MH: <b>1090-0312</b>
Location Code: <b>Light Highway</b>	Tape/Media #: <b>M317-056</b>	pipe length: <b>177 ft</b>

Reason for inspection: <b>Routine Assessment</b>	Dia/Height: <b>Circular 8"/8"</b>
Use of Sewer: <b>Sanitary</b>	Material: <b>Vitrified Clay Pipe</b> Pipe Length:
Drain. Area: <b>0311/1090-0312/1090</b>	Lining Method:
	Category:

Remark::

1:450	position	observation	MPEG	photo	grade
<b>1090</b>					
	0.00	Manhole, within 8 inch: NO, Remarks: 1090-0311	00:00:20	1109	
	6.00	Water Level, 5 %, within 8 inch: NO	00:00:45	1110	M 2
	10.90	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:01:18	1111	
	68.50	Tap Factory Active, at 3 o'clock, 4", within 8 inch: NO	00:03:12	1112	
	86.40	Fracture Multiple, from 12 to 4 o'clock, within 8 inch: YES	00:04:07	1113, b	S 4
	91.90	Fracture Longitudinal, at 2 o'clock, within 8 inch: YES	00:04:52	1115, b	S 3
	91.90	Crack Longitudinal, at 4 o'clock, within 8 inch: YES	00:05:04	1117, b	S 2
	177.00	Manhole, within 8 inch: NO, Remarks: 1090-0312	00:07:57	1119	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4131	2100	9	2	11	3	2	2.75