

This document is released for
the purpose of information
exchange review and
planning only under the
authority of Hugh Steve
McDonald, December 2015,
State of California, PE No.
44074 and Tracy Anne
Clinton, December 2015,
State of California, PE No.
48199

City of Oxnard

Public Works Integrated Master Plan

STORMWATER

**PROJECT MEMORANDUM 5.3
CONDITION ASSESSMENT**

FINAL DRAFT
December 2015



City of Oxnard
Public Works Integrated Master Plan

STORMWATER
PROJECT MEMORANDUM 5.3
CONDITION ASSESSMENT

TABLE OF CONTENTS

	<u>Page No.</u>
1.0 INTRODUCTION	1
1.1 Project Memoranda (PMs) Used for Reference	1
2.0 FINDINGS.....	1

LIST OF APPENDICES

APPENDIX A - STORM DRAINAGE CONDITION ASSESSMENT

1.0 INTRODUCTION

V&A Consulting Engineers, Incorporated (V&A) was contracted to conduct a condition assessment of selected storm drain facilities throughout the City of Oxnard (City). This storm drain evaluation was conducted between September 12 and 18, 2014. Manholes, catch basins, pipes, channels, flood zones, and outfalls were visually inspected topside. A pole mounted camera was used when needed for further assessment.

1.1 Project Memoranda (PMs) Used for Reference

The assessment conducted in this PM may integrate with information from the following other PMs:

- PM 5.1 - Stormwater System - Background Summary.
- PM 5.2 - Stormwater System - Infrastructure Modeling and Alternatives.
- PM 5.4 - Stormwater System - Treatment Alternatives.

2.0 FINDINGS

A total of 304 pipes, catch basins, manholes, and channels were assessed in this condition assessment report. Limited areas that have flooded in the past were also investigated. This represents approximately 2 percent of the entire stormwater collection system. Assets for inspection were chosen based on age, slope, and proximity to areas prone to flooding. Groupings of old assets with small slopes near areas prone to flooding were top priority. Overall, 29 sites were assessed.

This condition assessment found that approximately 12 percent of the assets assessed need immediate attention or need attention within the next five years. The specific assets in this category are shown in Appendix A, Table 3-1. The majority of the assets, however, were in excellent condition. Sediment build-up is also of concern in approximately 12 percent of the assessed stormwater collection system assets that were inspected. These assets had moderate to significant sediment buildup and should be cleaned within five years. However the majority of the assets assessed had negligible amounts of sediment.

A detailed discussion of the condition assessment results can be found in Appendix A.

APPENDIX A - STORM DRAINAGE CONDITION ASSESSMENT

TECHNICAL MEMORANDUM

CITY OF OXNARD STORM DRAINAGE CONDITION ASSESSMENT

Prepared for: Shawn Dent, P.E., Carollo Engineers, Inc.

Prepared by: Clinton McAdams, V&A Consulting Engineers

Reviewed by: Noy Phannavong, P.E., V&A Consulting Engineers, Inc.
Jose Villalobos, P.E., V&A Consulting Engineers, Inc.



Date: October 17, 2014

V&A Project No.: 14-0195 T01

ES EXECUTIVE SUMMARY

V&A Consulting Engineers, Inc. (V&A) was retained by Carollo Engineers, Inc. (Carollo) to conduct a condition assessment of storm drain facilities in support of the Storm Drain Master Plan (SDMP) for the City of Oxnard, California (City). The prime consultant selected a total of 29 storm drainage facility areas (SDFA) to be evaluated. The SDFAs contained, but are not limited to, catch basins, pipes, manholes, channels, flood zones, and outfalls. The assessment of the selected SDFAs was carried out between September 12 and 18, 2014. All evaluations were performed topside, and a pole mounted camera was used when needed. A complete list of findings is presented in Appendix A – Facility Inventory.

Based on the findings from the condition assessment activities, V&A presents the following conclusions for the features evaluated within the selected SDFAs:

- 37 (about 12 percent) of the features need immediate attention or need to be rehabilitated or replaced within the next 5 years. This represents 0.25 percent of the entire storm drainage system.
- 267 (about 88 percent) of the features are in fair to good condition. These features should be reassessed within the next 5 to 15 years.
- 35 (about 12 percent) of the features have a significant to moderate amount of sediment/debris. In general, the trash observed is typical for similar urban areas in the Bay Area. Some of the catch basins had somewhat excessive trash, but nothing out of the ordinary. These features should be cleaned within the next 5 years. This represents 0.24 percent of the entire storm drainage system.
- 174 (about 57 percent) of the features have a minor to negligible amount of sediment/debris. These features should be reassessed or cleaned within the next 5 to 15 years.

Based on the findings from the condition assessment activities, V&A presents the following recommendations for consideration:

- Continue to collect storm water asset information to develop the City's system wide GIS for the storm drainage system.

- Conduct further investigations and rehabilitate specific features mentioned in Appendix A – Facility Inventory based on the appropriate timeframe. A list of general suggested rehabilitation methods is provided as follows:
 - Pour a new concrete invert in pipes noted with significant surface corrosion and perforations at the invert. Ensure that the pipe bedding is restored below and around the pipe and that the new invert has structural strength for the anticipated loading on the pipe.
 - Install a CIPP liner at pipes noted to have significant water infiltration and/or surface corrosion on the pipe walls and crown.
 - Establish a routine cleaning schedule for pipes noted with significant sediment, debris and/or obstructions. The plan should focus on reducing the percentage of features noted by half within the next year.

1.0 INTRODUCTION

V&A Consulting Engineers, Inc. (V&A) was retained by Carollo Engineers, Inc. (Carollo) to conduct a condition assessment of storm drain facilities in support of the Storm Drain Master Plan (SDMP) for the City of Oxnard, California (City). The assessment was carried out between September 12 and 18, 2014. The findings of the assessment will serve as a guide for preservation, improvement, and expansion of the City's storm water infrastructure. The prime consultant selected a total of 29 storm drainage facility areas (SDFA) to be evaluated. The SDFAs contained, but are not limited to, catch basins, pipes, manholes, channels, flood zones, and outfalls. The criteria for picking the SDFAs is as follows:

- Gravity mains, force mains, and culverts that are older than 35 years and made of CMP or reinforced concrete were considered for assessment.
- Open channels and catch basins that are older than 35 years were also considered for assessment.
- Pipes that have a slope less than 0.0001 were also considered for assessment.
- Newer culverts that are close to areas that flood were also considered for assessment.

In all cases, assets clustered in groups and near areas that flood were chosen for assessment. The features that were evaluated within the selected SDFAs only represent a portion of the entire storm drainage system, as shown in Table 1-1.

Table 1-1. Percent of System Evaluated

Assets	Total Evaluated	System Total	Percent of System Evaluated
Pipes*	174	11,532	1.5%
Catch Basins	102	662	15.4%
Manholes	8	2,010	0.4%
Channels	13	571	2.3%
Flood Zones	7	43	16.3%
Total	304	14,818	2.1%

*Pipes category includes gravity mains, force mains, culverts, laterals, outfalls, and all other pipes.

Each SDFA consisted of evaluating the selected point features (e.g. a catch basin or manhole) along with all of the connecting pipe features accessible from that access point. Figure 1-1 shows the SDFAs where the condition assessment activities were performed.

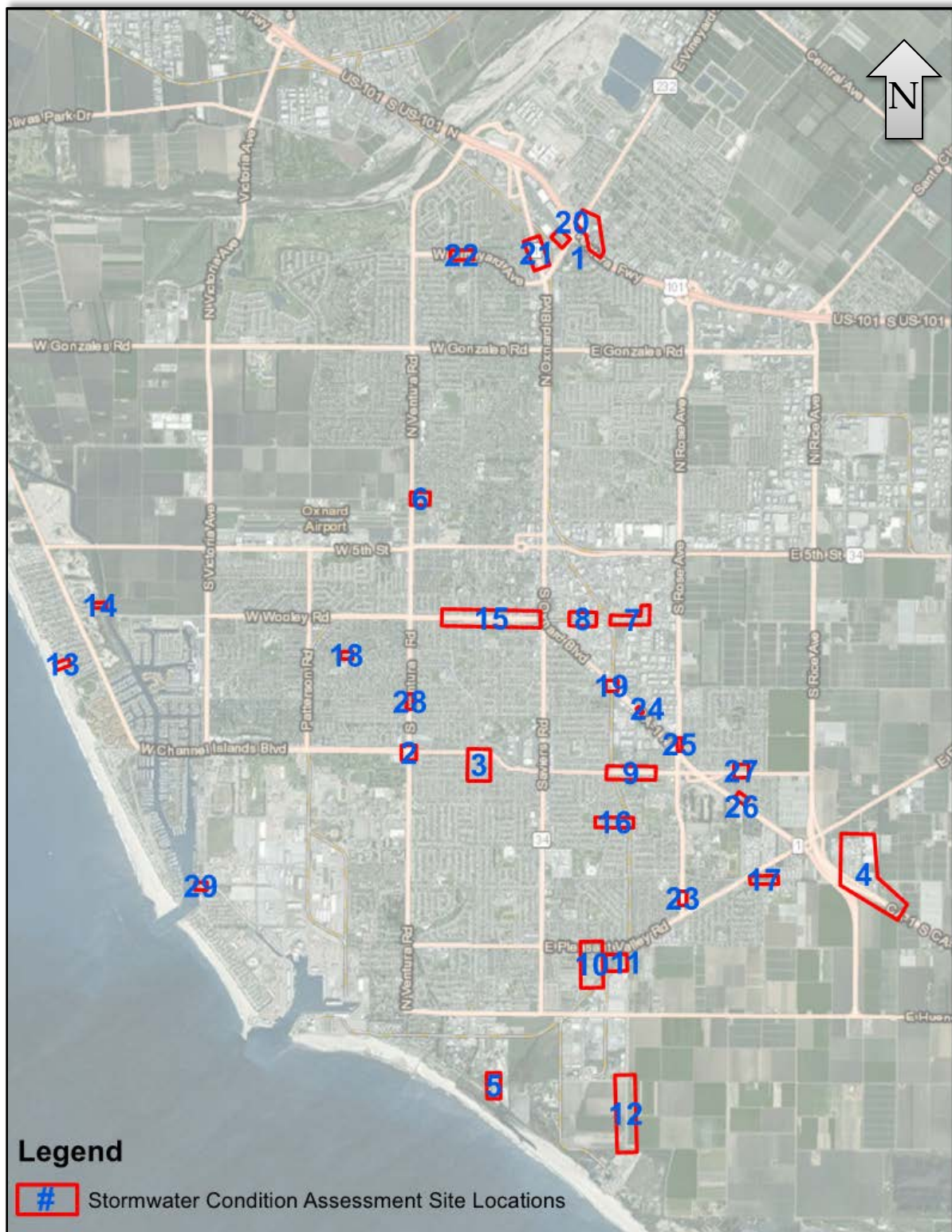


Figure 1-1. Map of Selected SDFAs for Condition Assessment

2.0

CONDITION ASSESSMENT

Qualitative condition assessment observations were based on V&A's extensive experience evaluating potable water, wastewater, and storm water structures and pipelines. No manned entries were performed during this condition assessment. Assessment evaluation methods consisted of, but are not limited to, the following list:

- Feature IDs for the assets evaluated were taken from the City's storm drainage system basemap. Some of the piping evaluated did not have a feature ID, but can be referenced by the associated access point.
- Visual examinations and documentation with photographs. A pole-mounted camera was used to photograph features that were unable to be properly assessed from a topside evaluation.
- Pipes were evaluated starting with the effluent pipe and moving in a clockwise direction to the subsequent pipes found at each access point. When the effluent, or outlet, pipe was unknown, a sketch was provided depicting the estimated direction of flow.
- Feature locations were recorded using a handheld GPS unit and/or through written documentation.
- Relevant dimensions and grade/rim to invert depth were measured or estimated, depending on access and the surrounding environment.
- Sediment/debris was briefly described and its depth was measured or estimated. Water depth within the feature was also measured or estimated.
- Obstructions, cracking, corrosion, displacement, and other defects and concerns were documented.
- VANDA Condition Index ratings were used as appropriate (Table 2-1 and Table 2-2).
- Observations of infiltration were rated according to the National Association of Sewer Service Companies Pipeline Assessment and Certification Program codes (Table 2-3).
- V&A used a prioritization rating scale of 1 to 5 to classify the storm water facilities needing attention. The rating is in the order of increasing priority from 1 to 5, with facilities rated 5 needing immediate attention. Table 2-4 summarizes the methods used to prioritize the facilities and some example defects associated with each priority level.

It is strongly emphasized that the condition assessment data gathered for this project was limited to what was visible from the available access points. Defects may exist in portions of the pipe segments not visible to the evaluator. In many situations, a view into the pipe was not possible due to access limitations or sediment/debris. In some cases, the condition assessment data did not provide enough useful information to apply ratings for an asset.

2.1 VANDA™ Reinforced Concrete Condition Index

The VANDA™ Reinforced Concrete Condition Index was created by V&A to provide consistent reporting of corrosion damage based on qualitative, objective criteria. Condition of corrosion can vary from Level 1 to Level 4 based upon visual observations and field measurements, with Level 1 indicating the best condition and Level 4 indicating severe damage. Table 2-1 describes the concrete condition index system.

Table 2-1. VANDA™ Reinforced Concrete Condition Index Rating System

Condition Rating	Description	Representative Photograph
Level 1	None/Minimal Damage to Concrete Hardness: No Loss Surface Profile: No Loss Cracking: Shrinkage Cracks Spalling: None Reinforcing Steel (Rebar): Not Exposed or Damaged	
Level 2	Damage to Concrete Mortar Hardness: Damage to Concrete Mortar Surface Profile: Some Loss Cracking: Thumbnail Sized Cracks of Minimal Frequency Spalling: Shallow Spalling of Minimal Frequency, Related Rebar Damage Reinforcing Steel (Rebar): May Be Exposed but Not Damaged	
Level 3	Loss of Concrete Mortar/Damage to Rebar Hardness: Complete Loss Surface Profile: Large Diameter Exposed Aggregate Cracking: ¼-inch to ½-inch Cracks, Moderate Frequency Spalling: Deep Spalling of Moderate Frequency, Related Rebar Damage Reinforcing Steel (Rebar): Exposed and Damaged, Can Be Rehabilitated	
Level 4	Rebar Severely Corroded/Significant Damage to Structure Hardness: Complete Loss Surface Profile: Large Diameter Exposed Aggregate Cracking: ½-inch Cracks or Greater, High Frequency Spalling: Deep Spalling at High Frequency, Related Rebar Damage Reinforcing Steel (Rebar): Damaged or Consumed, Loss of Structural Integrity	

© 2014 V&A Consulting Engineers, Inc. All rights reserved.

2.2 VANDA™ Metal Condition Index

The VANDA™ Metal Condition Index was created by V&A to provide consistent reporting of metal corrosion damage based on qualitative, objective criteria. Condition of metal can vary from Level 1 to Level 4 based upon visual observations and field measurements, with Level 1 indicating the best case and Level 4 indicating severe damage. Table 2-2 displays the metal condition index system.

Table 2-2. VANDA™ Metal Condition Index Rating System

Condition Rating	Description	Representative Photograph
Level 1	Little or No Corrosion Loss of Wall Thickness %: None Pitting Depth (as % of Wall Thickness): None to Minimal Extent (Area) of Corrosion: None	
Level 2	Minor Surface Corrosion Loss of Wall Thickness %: < 25% Pitting Depth (as % of Wall Thickness): < 25% Extent (Area) of Corrosion: Localized	
Level 3	Moderate to Significant Corrosion Loss of Wall Thickness %: 25%-75% Pitting Depth (as % of Wall Thickness): 25%-75% Extent (Area) of Corrosion: 25%-75%	
Level 4	Severe Corrosion; Immediate Repair/Replacement Needed Loss of Wall Thickness %: > 75% Pitting Depth (as % of Wall Thickness): 75% or More Extent (Area) of Corrosion: Affects Most or All of Surface	

© 2014 V&A Consulting Engineers, Inc. All rights reserved.

2.3 Infiltration Ratings

Groundwater infiltration (groundwater leaking into the storm drain system) was observed in some locations. These observations were rated according to the National Association of Sewer Services Companies (NASSCO) Pipeline Assessment & Certification Program (PACP) codes and broken down into the categories shown in Table 2-3.


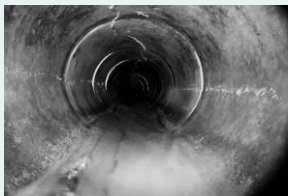
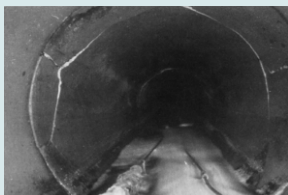

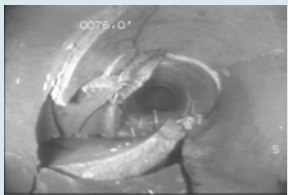
Table 2-3. Infiltration Ratings

Category	NASSCO PACP Code	Code Meaning	Type of Infiltration
No Data	–	–	–
None	–	–	No observed infiltration
Evidence	IS	Infiltration, stains	Stains or dry encrustations
	IW	Infiltration, weeper	Wet marks or stains (water weeping in)
Active	ID	Infiltration, dripper	Dripping water
	IR	Infiltration, runner	Small stream of flowing water
	IG	Infiltration, gusher	Larger stream of flowing water under apparent external pressure

2.4 Storm Drainage Facility Prioritization Scale

Storm drain features received overall evaluations according to the prioritization ratings shown in Table 2-4. Note that this scale is used for reporting the overall priority ratings of the storm water drainage facilities, while the material conditions, with respect to corrosion, are reported using the VANDA ratings. The prioritization ratings take into account the overall condition of the structure or pipeline, isolated defects that were noted, and factors such as the possible effects on the surrounding area. Some features may need immediate attention for certain problems even if they are in good condition otherwise. The table also provides a recommended timeline for repair or reassessment of the facilities.

Table 2-4. Storm Drainage Facility Prioritization Scale

Color Code	Rating	Reassessment or Repair Priority	Structural Rating Example	
	No rating	Not enough information was available to assign a rating.		
	1 Excellent	Failure unlikely in the foreseeable future. Reassess on a 15-year interval.		Minor or no defects
	2 Good	Reassess on a 10-year interval.		Defects that have not begun to deteriorate
			Longitudinal Cracking	
	3 Fair	Reassess on a 5-year interval and consider conducting repairs.		Moderate defects that will continue to deteriorate
			Multiple Fractures	
	4 Poor	Prioritize for rehabilitation within 5 years.		Severe defects
			Broken Pipe	
	5 Immediate Attention	Repair or replace immediately.		Defect requires immediate action
			Collapsed Pipe	

Rationale for each prioritization rating was made based on the categories describe in Table 2-5. Please note that more than one category may influence the provided prioritization rating for each feature.

Table 2-5. Prioritization Rating Rationale

Rationale	Description
Condition	The condition of the structure warrants the specified rating level due to likelihood and consequence of asset failure.
Location	The location of the asset warrants the specified rating level due to effects on the surrounding area, e.g. the asset is located under a roadway and would have a higher consequence upon failing.
Sediment/Debris	The level of sediment/debris within the asset warrants the specified rating level due to likelihood of hindering asset performance, e.g. high levels of sediment/debris can block a pipe and subsequently flood the surrounding area.
Safety	There is a safety concern which warrants the specified prioritization rating, e.g. public access is permitted to an asset that has potential trip and fall or other hazards.
Absence	The asset was unable to be located. The specified prioritization rating is based on the criticality of the asset to the system, i.e. the level of consequence associated with asset failure.
Other	There are other aspects that need to be taken into account and warrant the specified prioritization rating, e.g. the area/asset may have a history of notable concerns.

3.0 FINDINGS AND ANALYSIS

The selected features assessed at each SDFA received ratings per the VANDA Condition Index scales and the storm drainage facility prioritization scale. Note that the VANDA Condition Index only applies to metal and concrete corrosion damage. Features without a VANDA condition rating were assigned a prioritization rating based on other criteria, such as structural integrity, operational capabilities, and safety concerns. Detailed information regarding all of the individual assets that were evaluated is presented in Appendix A – Facility Inventory. The assets listed in Table 3-1 are those that pose the most significant concern and have received a prioritization rating of 4 or 5.

Table 3-1. Evaluated Features of Significant Concern

SDFA	Feature ID	Access Pt.	Dia. (in.)	Material	Sed/Debris (%)	VANDA Rating	Priority Rating	Priority Rationale
1	S Inlet	CB-P14-300	18	CMP	100	Level 2 - Minor Damage	Level 5 - Immediate Attention	Condition/Sediment
2	GB-L27-801_MH-L27-100	MH-L27-100	36	CMP	5	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location
2	JS-L27-503_MH-L27-100	MH-L27-100	36	CMP	0	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location
2	MH-L27-100_TS-L27-800	MH-L27-100	18H x 30W	CMP	0	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location
3	CB-M27-306	-	36H x 36W	Concrete	50	Level 1 - No Damage	Level 4 - Poor	Sediment/Location
4	HW-U30-800_JS-U30-502	-	16H x 30W	CMP	15	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location
4	IN-U30-1000_JS-U30-501	-	18H x 24W	CMP	5	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location
7	CB-024-300_MH-024-102	CB-024-300	10H x 18W	CMP	75	Level 1 - No Damage	Level 5 - Immediate Attention	Sediment/Location
7	CB-024-302_CB-024-300	CB-024-300	10H x 18W	CMP	50	Level 1 - No Damage	Level 4 - Poor	Sediment/Location
7	CB-P24-301	-	18H x 12W	Concrete	50	Level 1 - No Damage	Level 4 - Poor	Sediment/Location

SDFA	Feature ID	Access Pt.	Dia. (in.)	Material	Sed/Debris (%)	VANDA Rating	Priority Rating	Priority Rationale
8	CB-024-310	-	36H x 36W	Concrete	75	Level 1 - No Damage	Level 5 - Immediate Attention	Sediment/Location
8	PL-024-1200_PL-024-1201	CB-024-308	Unknown	Unknown	100	Unknown	Level 5 - Immediate Attention	Condition/Sediment
8	CB-024-302_CB-024-300	CB-024-302	10H x 18W	CMP	50	Level 1 - No Damage	Level 4 - Poor	Sediment/Location
8	CR-024-801_MH-024-100	CB-024-304	18H x 30W	CMP	10	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition
10	CB-P33-307_CB-P33-308	CB-P33-308	24	CMP	5	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location
10	CB-P33-308_CB-P33-308	CB-P33-307	24	CMP	25	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location
10	CB-P33-308_JSM-P33-504	CB-P33-308	24	CMP	5	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition
11	CB-P32-310	-	36H x 36W	Concrete	50	Level 1 - No Damage	Level 4 - Poor	Sediment/Location
11	CB-P33-300	-	24H x 24W	Concrete	50	Level 1 - No Damage	Level 4 - Poor	Sediment/Location
13	CB-E25-300_CB-E25-301	CB-E25-300	36	CMP	10	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location
13	CB-E25-300_CB-E25-301	CB-E25-301	36	CMP	10	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location
13	CB-E25-301_CB-E25-302	CB-E25-301	48	CMP	5	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location
15	CB-M24-313_JS-M24-502	CB-M24-313	18	RCP	0	Level 4 - Severe/Significant Damage	Level 5 - Immediate Attention	Condition/Location
15	CB-N24-309_JS-N24-503	CB-N24-309	18	RCP	50	Unknown	Level 4 - Poor	Condition/Sediment
16	CB-P29-300_JS-P29-500	CB-P29-300	12	CMP	5	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location
17	MH-S30-109_MH-S30-108	MH-S30-109	30H x 48W	CMP	15	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location

SDFA	Feature ID	Access Pt.	Dia. (in.)	Material	Sed/Debris (%)	VANDA Rating	Priority Rating	Priority Rationale
17	MH-S30-110_MH-S30-109	MH-S30-109	30H x 48W	CMP	15	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location
20	CB-014-327	-	72H x 36W	Concrete	85	Level 1 - No Damage	Level 5 - Immediate Attention	Sediment/Location
20	Inlet	CB-014-329	24	CMP	0	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location
20	Inlet	MH-014-106	18	CMP	0	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location
20	Outlet	MH-014-106	18	CMP	0	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location
24	HW-P26-801_HW-P26-802	-	10H x 16W	CMP	100	Level 2 - Minor Damage	Level 5 - Immediate Attention	Condition/Location/Sediment
26	CB-R28-305	-	72H x 36W	Concrete	50	Level 1 - No Damage	Level 4 - Poor	Sediment/Location
27	CB-R28-302_MH-R28-104	CB-R28-302	10	RCP	80	Unknown	Level 5 - Immediate Attention	Condition/Sediment
27	CB-R28-302	-	36H x 36W	Concrete	50	Level 1 - No Damage	Level 4 - Poor	Sediment/Location
28	CB-L26-310_JS-L26-508	CB-L26-310	Unknown	CMP	15	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location

Despite the assets listed in the previous table, analysis of all of the evaluated features show that the majority have a prioritization rating of 3 or lower. The results of this analysis are displayed in Table 3-2 and Figure 3-1.

Table 3-2. Number of Evaluated Features Prioritized

Prioritization Rating	Number of Features	Percentage of Features
5	8	2.6%
4	29	9.5%
3	84	27.6%
2	54	17.8%
1	129	42.4%

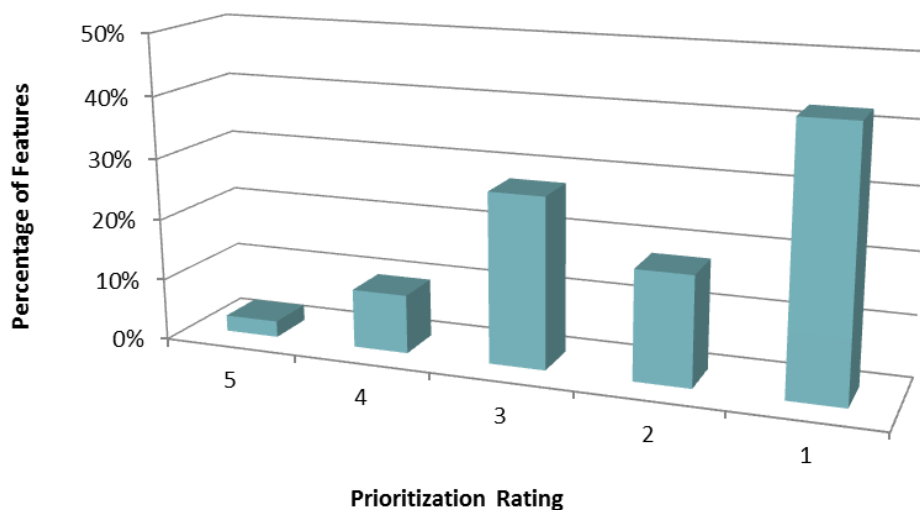


Figure 3-1. Percentage of Evaluated Features Prioritized

However, note that this information only represents part of the storm drainage system. In retrospect to the entire system, only 0.25 percent was found so far to have a prioritization rating of 5 or 4.

A number of features were noted to having sediment/debris buildup. However, analyzing the data for all of the evaluated features shows that the majority have a minor to negligible amount of sediment. The results of this analysis are displayed in Table 3-3 and Figure 3-2. Please note that assets where the depth of sediment/debris was unknown or was not applicable are listed under the “Other” category.

Table 3-3. Number of Evaluated Features with Sediment/Debris

Amount of Sediment	Number of Features	Percentage of Features
Significant	17	5.6%
Moderate	18	5.9%
Minor	60	19.7%
Negligible	114	37.5%
Other	65	21.4%

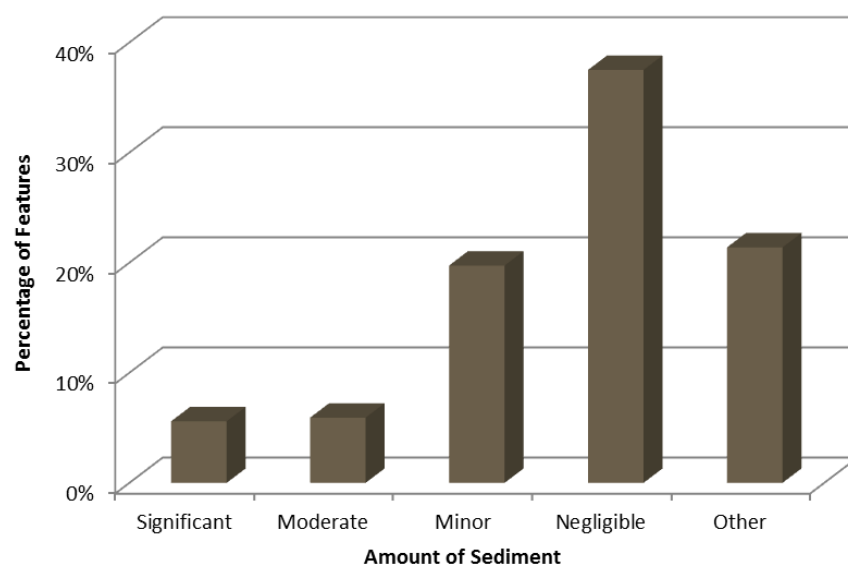


Figure 3-2. Percentage of Evaluated Features with Sediment/Debris

Please note that this only represents part of the storm drainage system. With respect to the entire system, only 0.24 percent was found so far to have a significant amount of sediment/debris. The communities and environments in which storm drainage systems are implemented vary greatly, so it is difficult to compare one system directly to another. In general, the trash observed is typical for similar urban areas in the Bay Area. Some of the catch basins had somewhat excessive trash, but nothing out of the ordinary.

4.0 CONCLUSIONS

Based on the findings from the condition assessment activities, V&A presents the following conclusions:

- 37 (about 12 percent) of the features need immediate attention or need to be rehabilitated or replaced within the next 5 years. This represents 0.25 percent of the entire storm drainage system.
- 267 (about 88 percent) of the features are in fair to good condition. These features should be reassessed within the next 5 to 15 years.
- 35 (about 12 percent) of the features have a significant to moderate amount of sediment/debris. In general, the trash observed is typical for similar urban areas in the Bay Area. Some of the catch basins had somewhat excessive trash, but nothing out of the ordinary. These features should be cleaned within the next 5 years. This represents 0.24 percent of the entire storm drainage system. For an urban area, this is a minor amount of sediment/debris.
- 174 (about 57 percent) of the features have a minor to negligible amount of sediment/debris. These features should be reassessed or cleaned within the next 5 to 15 years.
- Some of the notable defects and concerns were:
 - Hole with void visible
 - Obstructions
 - Surface corrosion
 - Perforations
 - Infiltration stains
 - Tidal influence

5.0 RECOMMENDATIONS

Before performing any of the suggested recommendations, proper planning and evaluation procedures for specified areas must be conducted. The suggested rehabilitation methods are based on industry standards and may not apply to all situations. The provided cost estimates are planning-level and do not take into account the specifics of the areas evaluated for this condition assessment. Based on the findings from the condition assessment activities, V&A presents the following recommendations for consideration:

- Continue to collect storm water asset information to develop the City's system wide GIS for the storm drainage system.
- Conduct further investigations and rehabilitate specific features mentioned in previous sections and in Appendix A – Facility Inventory based on the timeframe provided in the storm water facility prioritization scale. A list of general suggested rehabilitation methods is provided as follows:
 - Pour a new concrete invert in pipes noted with significant surface corrosion and perforations at the invert. Ensure that the pipe bedding is restored below and around the pipe and that the new invert has structural strength for the anticipated loading on the pipe.
 - Install a CIPP liner at pipes noted to have significant water infiltration and/or surface corrosion on the pipe walls and crown.
 - Establish a routine cleaning schedule for pipes noted with significant sediment, debris and/or obstructions. The plan should focus on reducing the percentage of features noted by half within the next year.

APPENDIX A - FACILITY INVENTORY

Features were grouped within the appropriate SDFA, or Site, and with the associated access point from which they were evaluated. The table of contents listing the Sites evaluated and the access points is provided below.

Table of Contents

Description	Page No.
SDFA 1 - Ventura Blvd	1
CB-O13-317	2
CB-O13-318	4
CB-O13-323	6
CB-O13-326	7
CB-O13-342	8
CB-P14-300	9
IN-O13-1000_JS-O13-525	15
FL 1	16
SDFA 2 - Ventura Rd and Channel Islands Blvd	17
CB-L27-306	18
CB-L27-308	22
MH-L27-100	25
FL 2	33
SDFA 3 - J St	34
CB-M27-304	35
CB-M27-305	38
CB-M27-306	40
CB-M28-302	43
CB-M28-303	46
CB-M28-304	48
MH-M27-101	50
SDFA 4 - Maulhardt Rd	54
JS-U30-502_IN-U30-1002	55

Description	Page No.
HW-U30-800_JS-U30-502	58
IN-U30-1000_JS-U30-501	60
FL 4	62
SDFA 5 - Perkins Rd	63
CB-N36-301	64
CB-N36-302	66
FL 5	67
SDFA 6 - 2nd St	69
CB-L20-320	70
CB-L21-300	72
CB-L21-301	75
CB-L21-302	77
SDFA 7 - Wooley Rd	80
CB-P23-317	81
CB-P23-318	83
CB-P24-300	85
CB-P24-301	87
CB-P24-303	89
CB-P24-307	91
CB-Q24-300	94
MH-P24-103	95
SDFA 8 - Wooley Rd	98
CB-O24-300	99
CB-O24-302	102
CB-O24-304	104
CB-O24-308	106
CB-O24-310	109
MH-O24-101	112
MH-O24-103	113
SDFA 9 - Channel Islands Blvd	118
MH-P28-106	119
FL 9	125

Description	Page No.
SDFA 10 - Squires Dr	126
CB-P32-306	127
CB-P32-308	128
CB-P33-305	131
CB-P33-307	133
CB-P33-308	136
SDFA 11 - Jefferson Square	139
CB-P32-310	140
CB-P32-311	142
CB-P33-300	144
CB-P33-303	145
CB-P33-304	147
CB-P33-306	149
CB-P32-309	151
SDFA 12 - Edison Dr	153
CB-P36-300	154
CB-P36-301	157
CB-P37-302	159
IN-P36-1000_RR-P37-800	162
SDFA 13 - Mandalay Bay	164
CB-E25-300	165
CB-E25-301	168
FL 13	171
SDFA 14 - Canal St	172
CB-F23-300	173
CB-F23-301	175
CB-F23-302	178
SDFA 15 - Wooley Rd	180
CB-M24-300	181
CB-M24-301	184
CB-M24-302	187
CB-M24-304	189

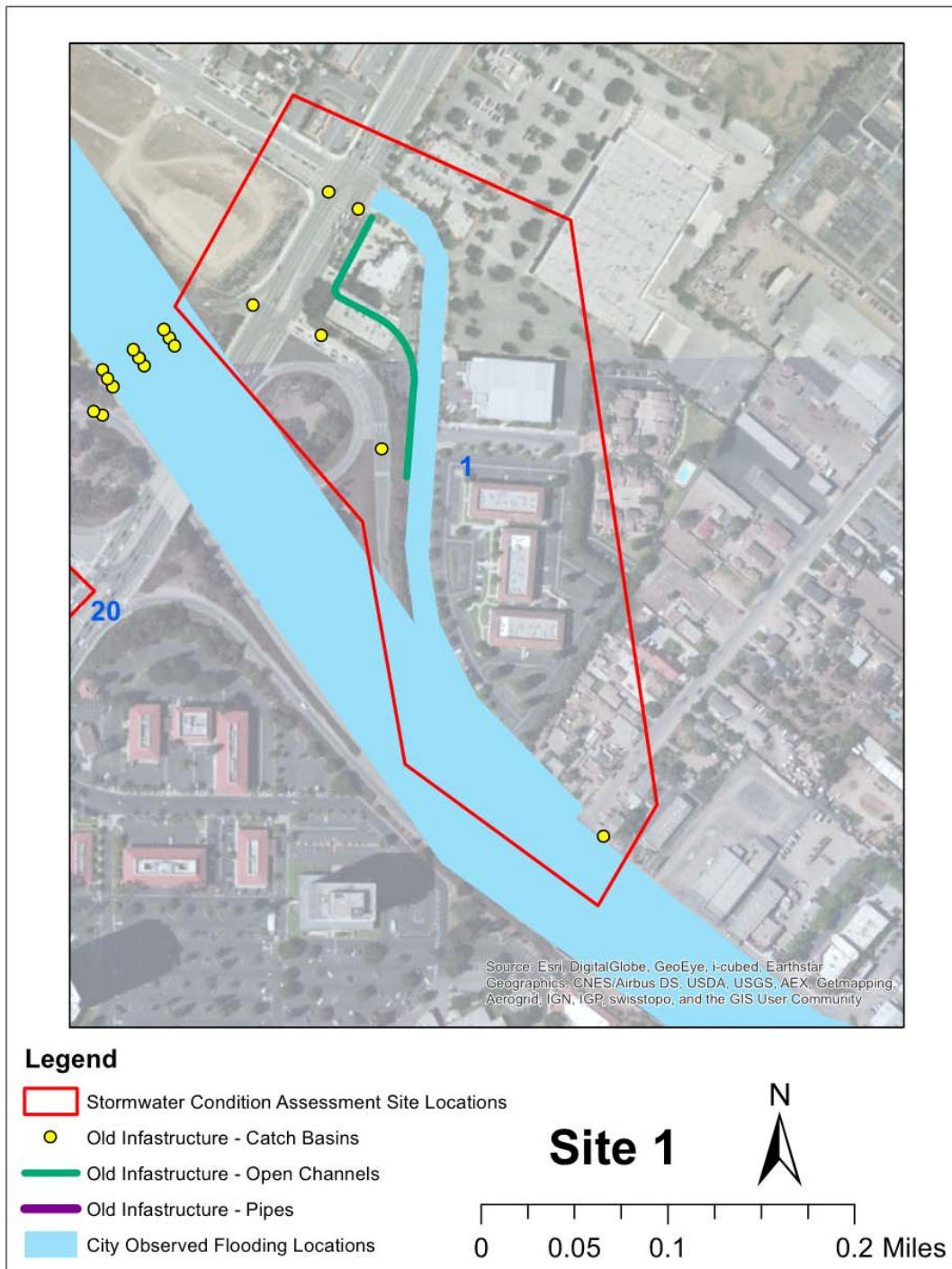
Description	Page No.
CB-M24-306	191
CB-M24-308	193
CB-M24-310	196
CB-M24-312	197
CB-M24-313	198
CB-M24-316	201
CB-M24-318	204
CB-N24-300	205
CB-N24-301	208
CB-N24-302	210
CB-N24-303	212
CB-N24-304	216
CB-N24-306	219
CB-N24-307	221
CB-N24-308	224
CB-N24-309	226
CB-N24-310	228
MH-M24-103	232
SDFA 16 - Fournier St	233
CB-P29-300	234
CB-P29-301	237
JS-P29-501_JS-P29-504	240
SDFA 17 - Etting Rd	241
MH-S30-109	242
SDFA 18 - Hill St	246
CB-K25-300	247
CB-K25-301	249
CB-K25-302	251
CB-K25-303	253
SDFA 19 - Pacific Coast Hwy	255
MIS-P25-812_JS-P25-509	256
MH-P25-108	258

Description	Page No.
SDFA 20 - Esplanade Dr	261
CB-O14-327	262
CB-O14-328	265
CB-O14-329	267
CB-O14-330	271
CB-O14-331	274
MH-O14-106	277
SDFA 21 - Pacific Coast Hwy	281
CB-N14-301	282
CB-N14-302	285
CB-N14-303	288
JS-N14-505_TS-N14-807	290
CB-N14-300	291
SDFA 22 - Vineyard Ave	293
CB-M14-325	294
CB-M14-327	297
IN-M14-1002_JS-M14-509	300
JS-M14-509_JS-M14-508	301
SDFA 23 - Rose Ave	302
CB-Q31-300	303
MH-Q31-102	305
SDFA 24 - Statham Blvd	309
HW-P26-801_HW-P26-802	310
SDFA 25 - Rose Ave	313
MH-Q27-103	314
SDFA 26 - Sutter Pl	319
CB-R28-304	320
CB-R28-305	322
CB-R28-306	326
CB-S28-306	329
SDFA 27 - Channel Islands Blvd	331
CB-R28-300	332

Description	Page No.
CB-R28-301	334
CB-R28-302	336
CB-R28-303	338
JS-R28-500_TS-R28-802	341
SDFA 28 - Ventura Rd	343
CB-L26-302	344
CB-L26-303	346
CB-L26-306	348
CB-L26-308	350
CB-L26-310	352
FL 28	355
SDFA 29 - Kiddie Beach	356
MH-H31-100_MIS-H31-800	357

SDFA 1 - Ventura Blvd

Area Map



SDFA 1 - Ventura Blvd

Catch Basin CB-013-317

Evaluation date/time: 9/18/2014 11:48 AM
Address/location: E Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.233248
Longitude: -119.17207
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

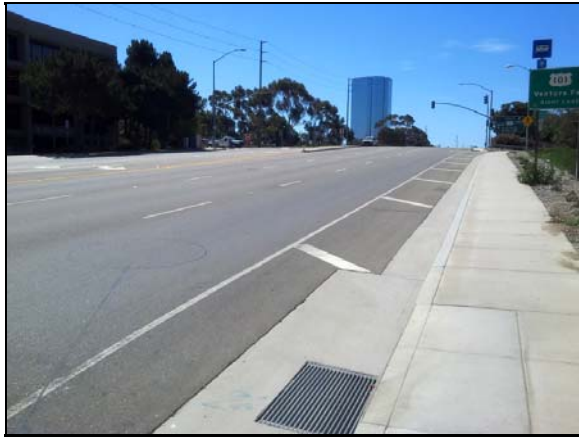
Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-013-317_CB-013-318	Out	S	Unknown	Unknown				Unknown	Unknown	0	Unknown	Level 3 - Fair	Condition/Location	Under roadway.

Photos

SDFA 1 - Ventura Blvd

Catch Basin CB-013-317



Location view



Catch basin



View inside catch basin

SDFA 1 - Ventura Blvd

Catch Basin CB-013-318

Evaluation date/time: 9/17/2014 12:24 PM
Address/location: E Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.233356
Longitude: -119.17207
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-013-317_CB-013-318	In	S	Unkn own	Unknow n				Unknown	Unknow n	0	Unknown	Level 3 - Fair	Condition/Loc ation	Under roadway.
CB-013-318_JS-013-514	Out	S	Unkn own	Unknow n				Unknown	Unknow n	0	Unknown	Level 3 - Fair	Condition/Loc ation	Under parking lot.

Photos

SDFA 1 - Ventura Blvd

Catch Basin CB-O13-318



Location view



Catch basin

SDFA 1 - Ventura Blvd

Catch Basin CB-O13-323

Evaluation date/time: 9/18/2014 11:40 AM
Address/location: E Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude:
Longitude:
Property type: Public
Access: Poor
Traffic: Heavy
Ground surface type: Concrete
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Unknown
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence:

Notes

Located within heavily congested traffic area, was not able to access to evaluate.

Photos

SDFA 1 - Ventura Blvd

Catch Basin CB-O13-326

Evaluation date/time: 9/18/2014 11:40 AM
Address/location: E Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude:
Longitude:
Property type: Public
Access: Poor
Traffic: Heavy
Ground surface type: Concrete
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Unknown
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence:

Notes

Located within freeway off ramp, was not able to access to evaluate.

Photos

SDFA 1 - Ventura Blvd

Catch Basin CB-O13-342

Evaluation date/time: 9/18/2014 11:40 AM
Address/location: E Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude:
Longitude:
Property type: Public
Access: Poor
Traffic: Heavy
Ground surface type: Concrete
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Unknown
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence:

Notes

Located within freeway off ramp, was not able to access to evaluate.

Photos

SDFA 1 - Ventura Blvd

Catch Basin CB-P14-300

Evaluation date/time: 9/17/2014 11:23 AM
Address/location: Cortez St and E Ventura Blvd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.229182
Longitude: -119.169796
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 24
Material: Concrete
Grade/rim-invert (ft.): 4.4
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

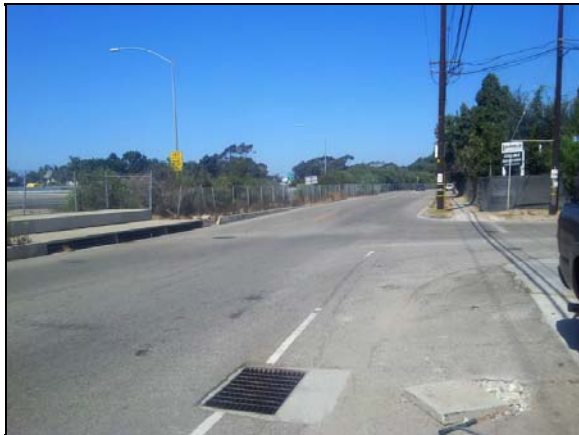
Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P14-300_JS-P14-500	Out	W	30	CMP	4.2	0	5	Silt	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Loc ation	Under roadway. Coating missing at various places and minor corrosion on CMP.
E Inlet	In	W	18	CMP	2	0	5	Silt	None	0	Level 2 - Minor Damage	Level 2 - Good	Condition	Coating missing at various places and minor corrosion on CMP.

SDFA 1 - Ventura Blvd

Catch Basin CB-P14-300

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
S Inlet	In	N	18	CMP	4.4	0	100	Silt/Grave/IRock	None	0	Level 2 - Minor Damage	Level 5 - Immediate Attention	Condition/Sediment	Blocked with sediment. Coating missing at various places and minor corrosion on CMP.

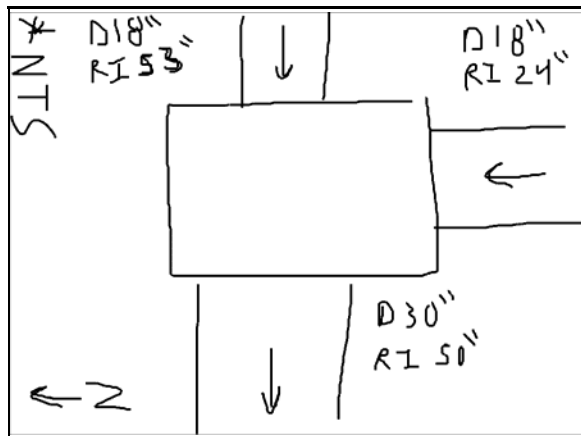
Photos



Location view



Location view



Sketch



View inside catch basin

SDFA 1 - Ventura Blvd

Catch Basin CB-P14-300



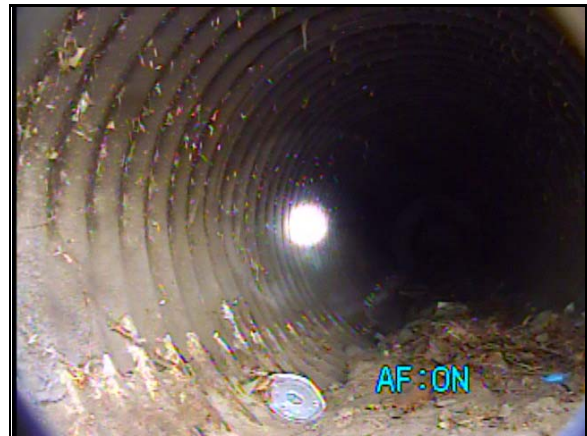
View of outlet



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



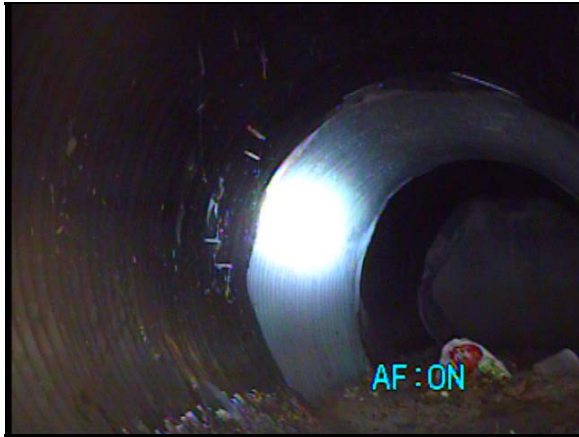
View inside outlet pipe



View inside outlet pipe

SDFA 1 - Ventura Blvd

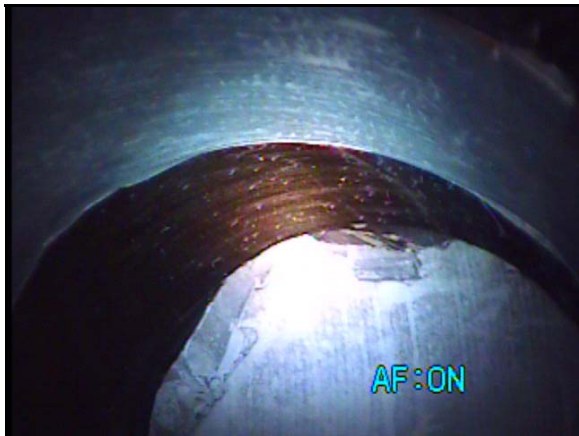
Catch Basin CB-P14-300



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View of inlets



View of bottom inlet

SDFA 1 - Ventura Blvd

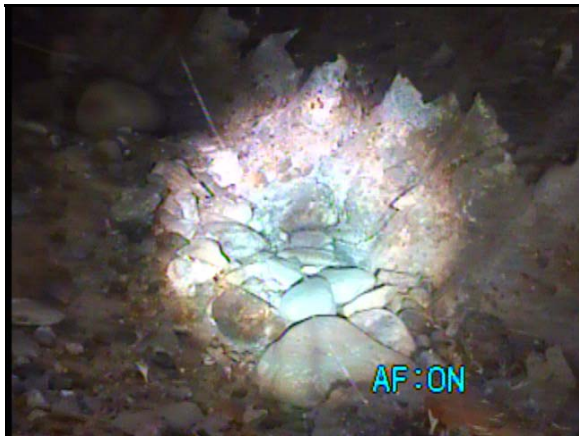
Catch Basin CB-P14-300



View inside bottom inlet pipe



View inside bottom inlet pipe



View inside bottom inlet pipe



View of top inlet



View inside top inlet



View inside top inlet

SDFA 1 - Ventura Blvd

Catch Basin CB-P14-300



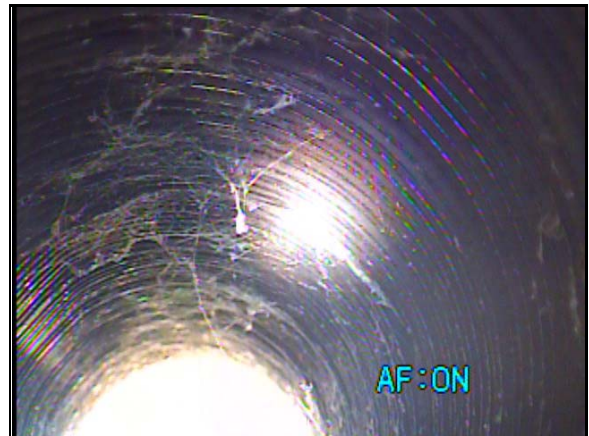
View inside top inlet



View inside top inlet



View inside top inlet



View inside top inlet

SDFA 1 - Ventura Blvd**Channel IN-O13-1000_JS-O13-525**

Evaluation date/time: 9/18/2014 11:59 AM
Address/location: E Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.23313
Longitude: -119.171984
Property type: Unknown
Access: Unknown
Traffic: Unknown
Ground surface type: Unknown
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Unknown
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Absence
Illegal dumping evidence:

Notes

Unable to locate. May actually be a pipe and be buried.

Photos

Location View

SDFA 1 - Ventura Blvd

Flood Zone FL 1

Evaluation date/time: 9/17/2014 4:03 PM
Address/location: Ventura Blvd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.231156
Longitude: -119.171641
Property type:
Access:
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): N/A
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices: N/A

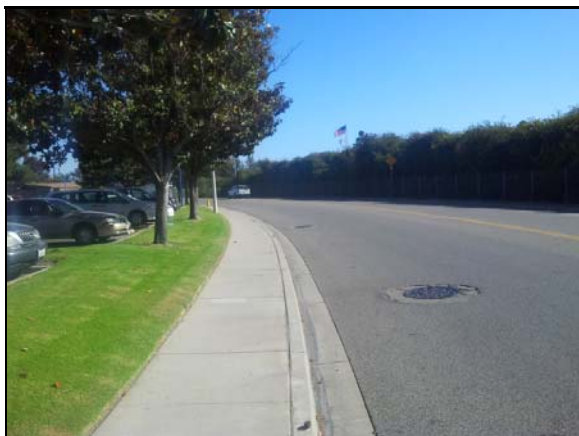
Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Other
Illegal dumping evidence: No

Notes

Road appears to slope south and east. Area has history of flooding.

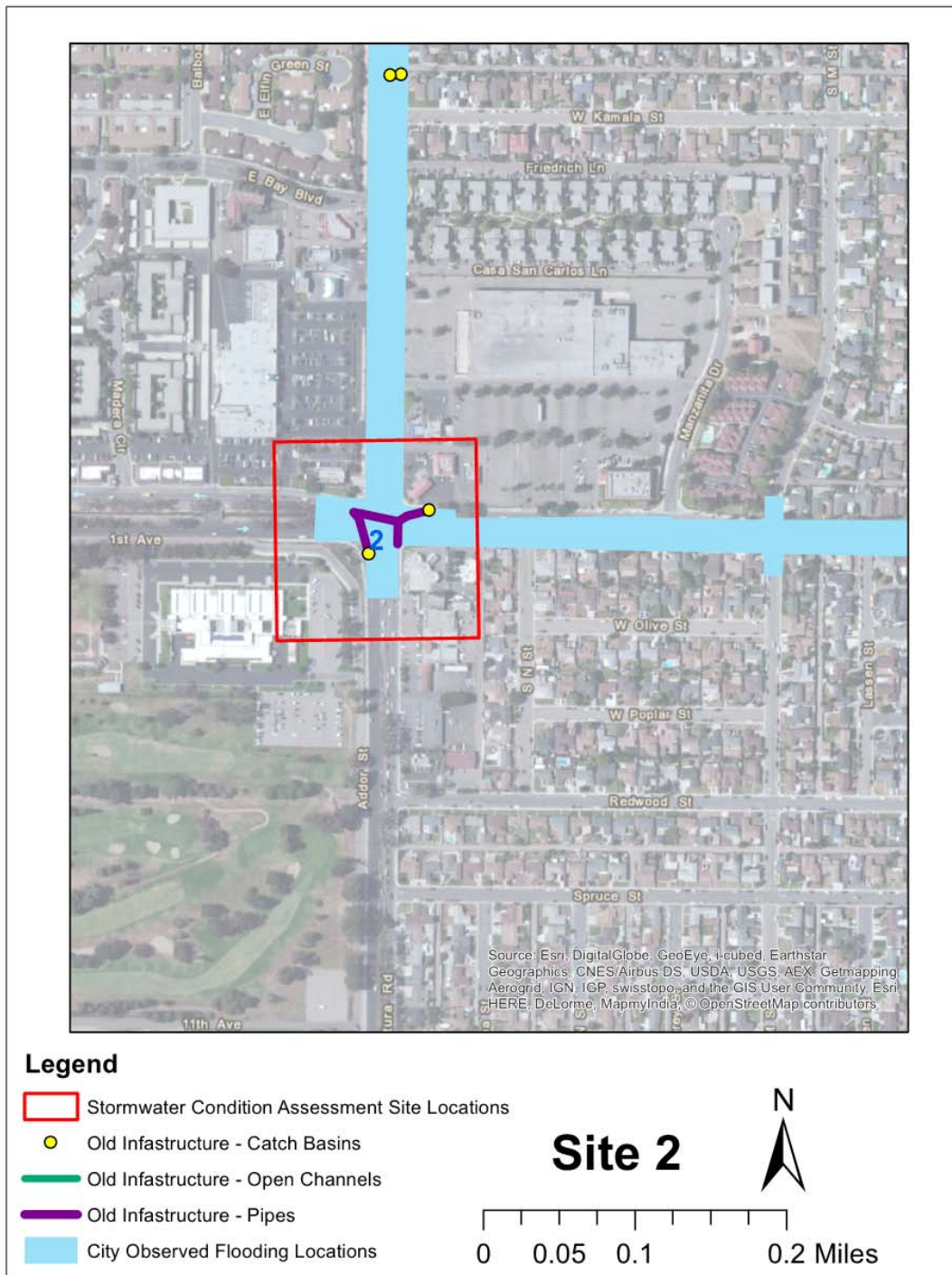
Photos



Location View

SDFA 2 - Ventura Rd and Channel Islands Blvd

Area Map



SDFA 2 - Ventura Rd and Channel Islands Blvd

Catch Basin CB-L27-306

Evaluation date/time: 9/18/2014 1:14 AM
Address/location: Channel Islands Blvd and Ventura Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.175806
Longitude: -119.194536
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 160
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 2 - Minor Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Concrete missing and exposed reinforcing steel at chimney.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L27-306_GB-L27-801	Out	W	36	CMP	4.3	5	5	Trash/Vegetation	None	0	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location	Under roadway.

Photos

SDFA 2 - Ventura Rd and Channel Islands Blvd

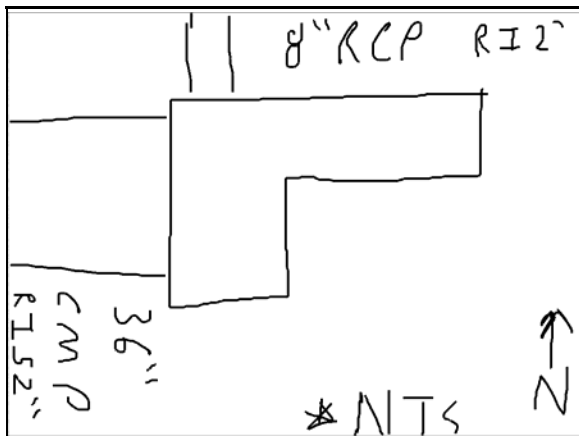
Catch Basin CB-L27-306



Location view



Catch basin



Sketch



Catch basin chimney



View inside catch basin



View inside catch basin

SDFA 2 - Ventura Rd and Channel Islands Blvd

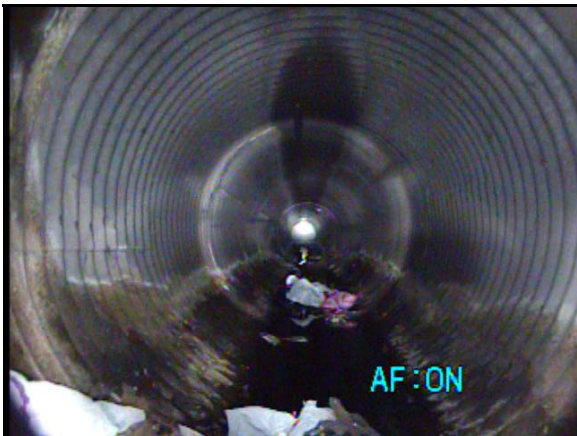
Catch Basin CB-L27-306



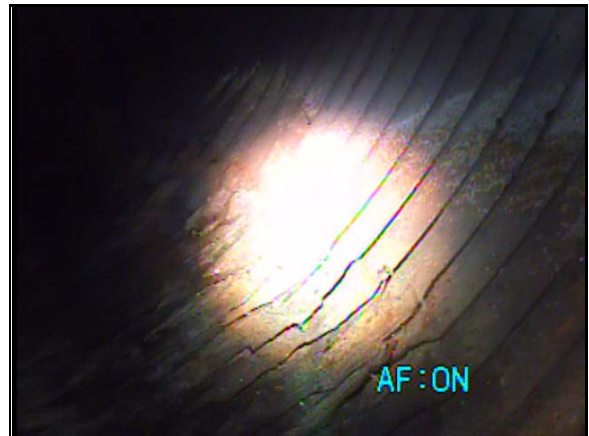
View of outlet



View inside outlet pipe



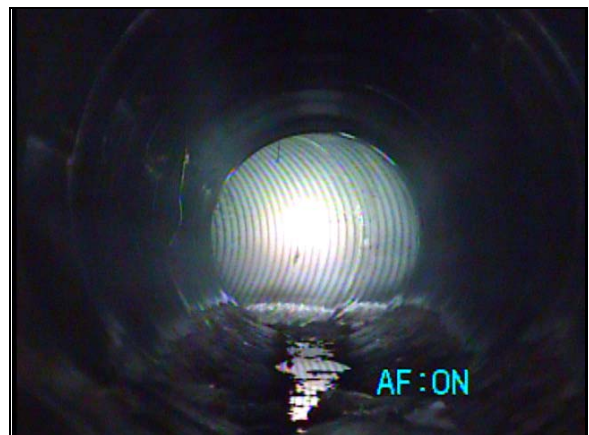
View inside outlet pipe



Surface corrosion



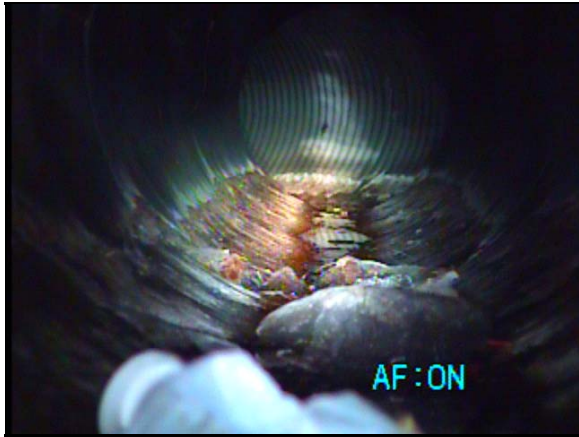
Surface corrosion



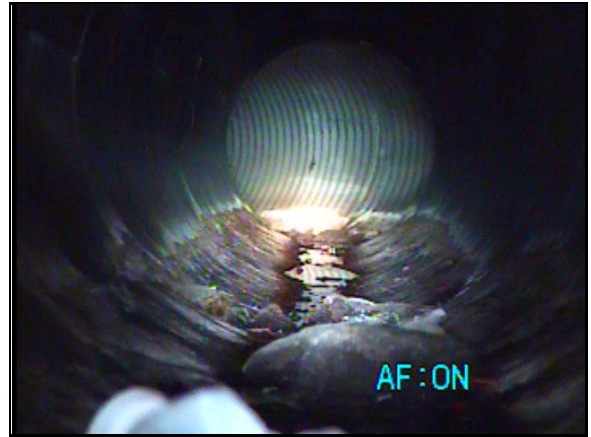
View inside outlet pipe

SDFA 2 - Ventura Rd and Channel Islands Blvd

Catch Basin CB-L27-306



View inside outlet pipe



View inside outlet pipe

SDFA 2 - Ventura Rd and Channel Islands Blvd

Catch Basin CB-L27-308

Evaluation date/time: 9/18/2014 1:47 AM
Address/location: Channel Islands Blvd and Ventura Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.175473
Longitude: -119.195287
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 108
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L27-308_JS-L27-501	Out	NW	12H x 18W	CMP	4	0	25	Vegetation/Trash	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Location/Sediment	Under roadway.

Photos

SDFA 2 - Ventura Rd and Channel Islands Blvd

Catch Basin CB-L27-308



Location view



Catch basin



View inside catch basin



View inside catch basin



View inside catch basin



View inside catch basin

SDFA 2 - Ventura Rd and Channel Islands Blvd

Catch Basin CB-L27-308



View inside catch basin

SDFA 2 - Ventura Rd and Channel Islands Blvd

Culvert MH-L27-100

Evaluation date/time: 9/18/2014 2:02 AM
Address/location: Channel Islands Blvd and Ventura Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.175742
Longitude: -119.194944
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 6.4
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: None
Obstruction/deflection: 15.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
GB-L27-801_MH-L27-100	In	W	36	CMP	6.4	5	5	Gravel/Rock/Trash	None	0	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location	Significant corrosion and perforations at invert of all pipes. Under roadway.
JS-L27-503_MH-L27-100	In	S	36	CMP	6	5	0	None	None	0	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location	Significant corrosion and perforations at invert of all pipes. Under roadway.

SDFA 2 - Ventura Rd and Channel Islands Blvd

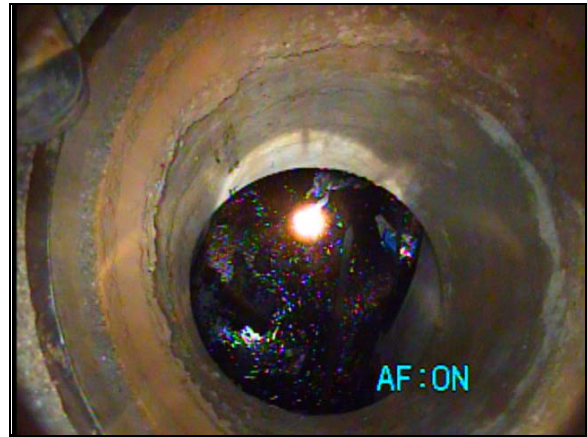
Culvert MH-L27-100

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
MH-L27-100_TS-L27-800	Out	W	18H x 30W	CMP	6.4	5	0	None	None	15	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location	Four outlet CMPs with same shape and dimensions. Significant corrosion and perforations at invert of all pipes. Outlet B is deflected 15%.

Photos



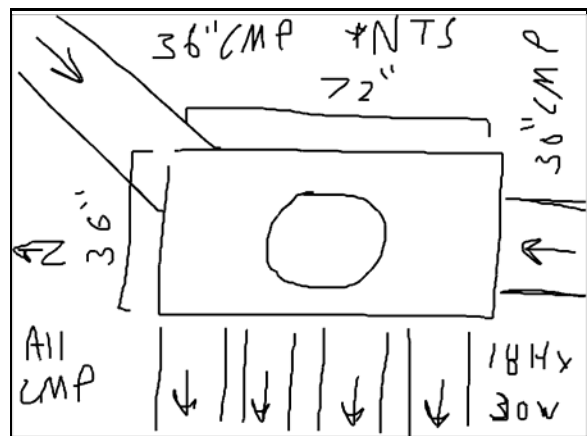
Location view



View inside manhole



View inside manhole



Sketch

SDFA 2 - Ventura Rd and Channel Islands Blvd

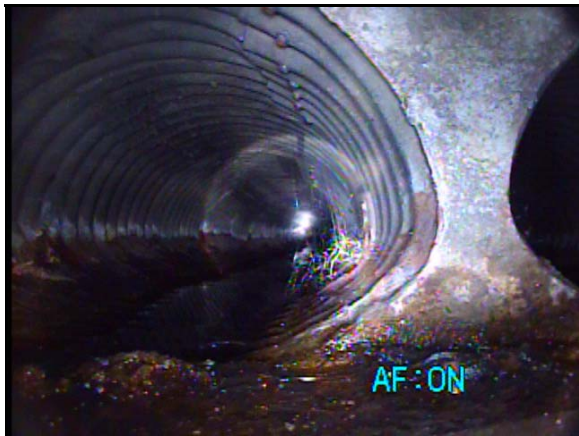
Culvert MH-L27-100



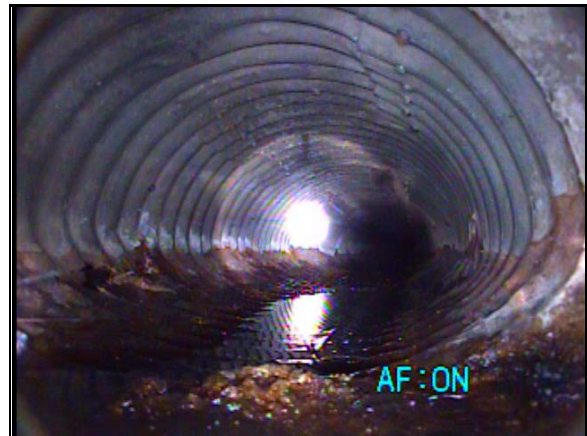
View of outlet A



View of outlet B



View of outlet B



View inside outlet B



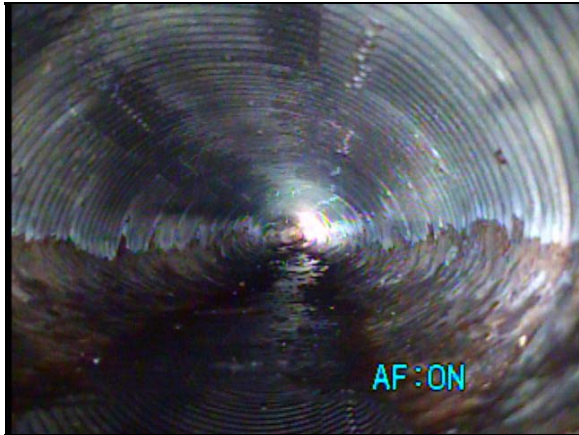
View inside outlet B



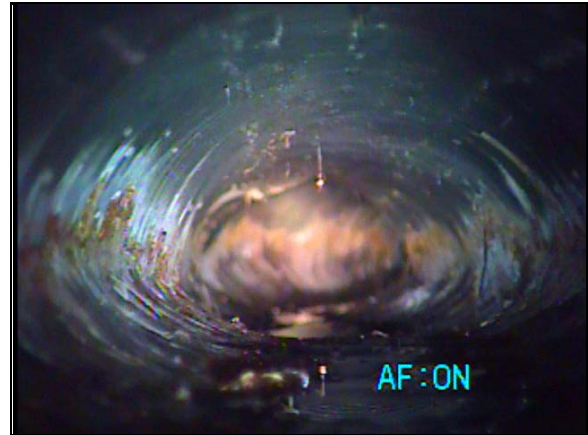
View inside outlet B

SDFA 2 - Ventura Rd and Channel Islands Blvd

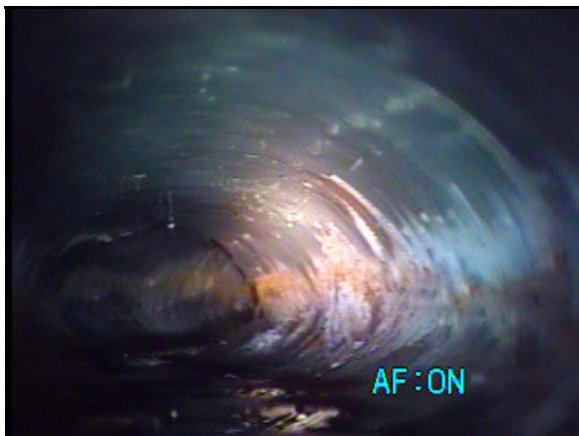
Culvert MH-L27-100



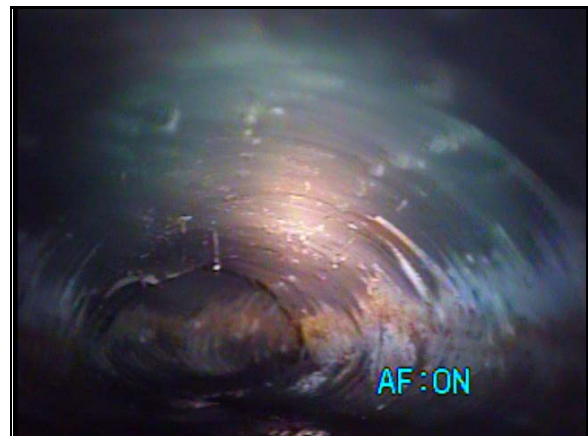
View inside outlet B



View inside outlet B



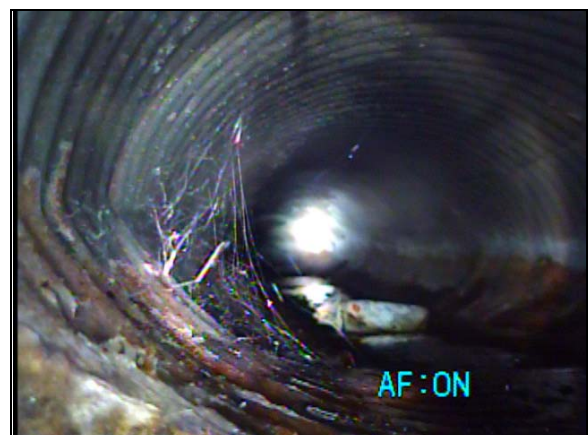
View inside outlet B



View inside outlet B



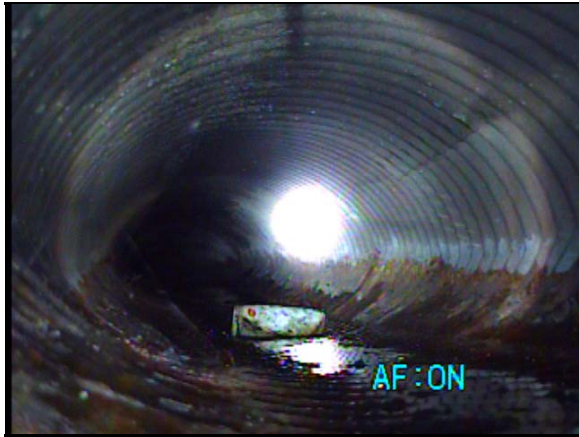
View of outlet C



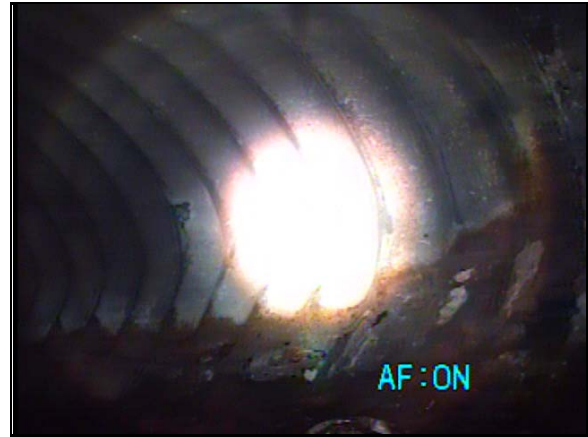
View inside outlet C

SDFA 2 - Ventura Rd and Channel Islands Blvd

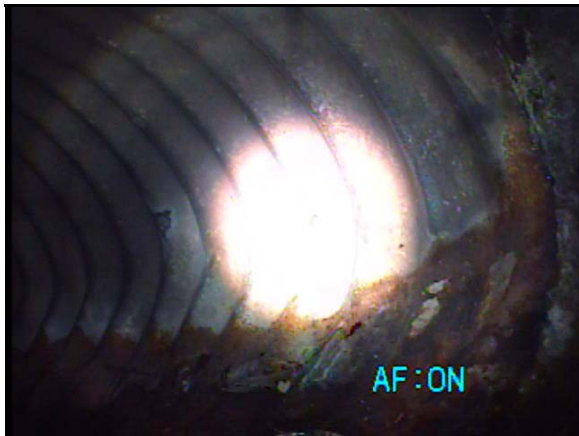
Culvert MH-L27-100



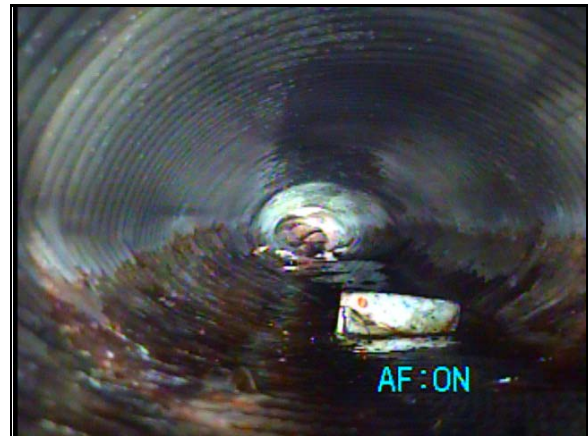
View inside outlet C



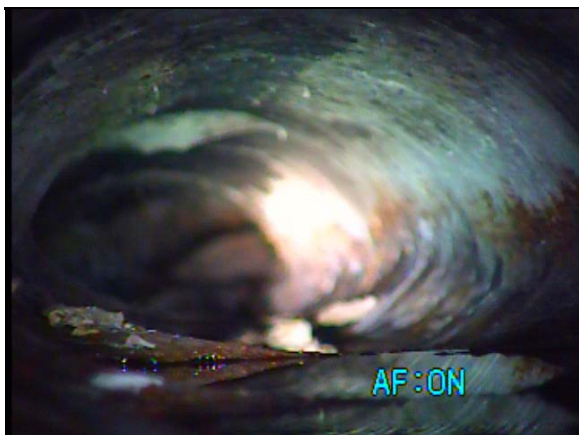
View inside outlet C



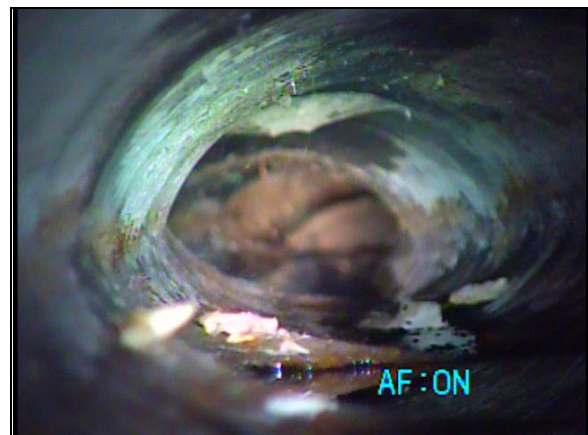
View inside outlet C



View inside outlet C



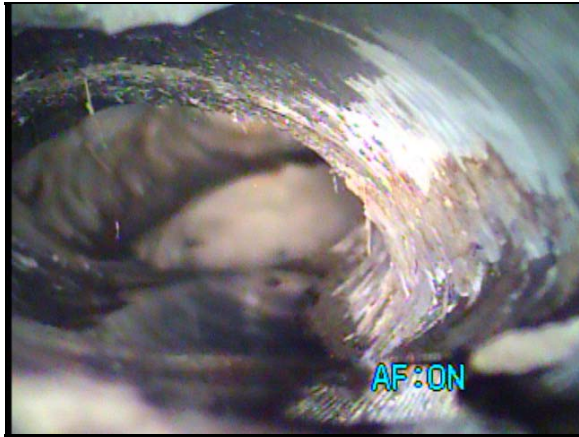
View inside outlet C



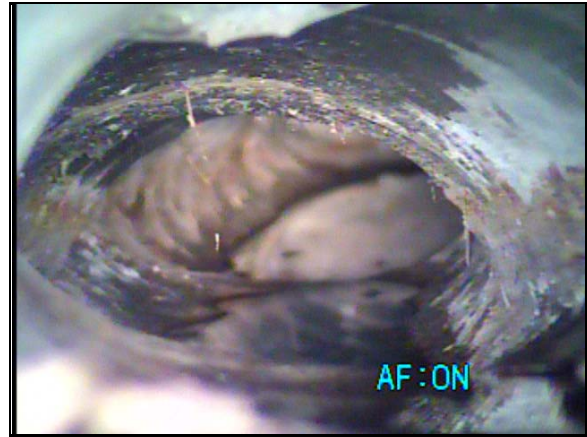
View inside outlet C

SDFA 2 - Ventura Rd and Channel Islands Blvd

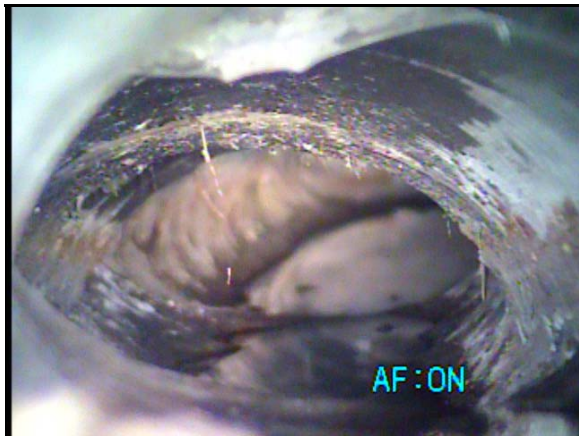
Culvert MH-L27-100



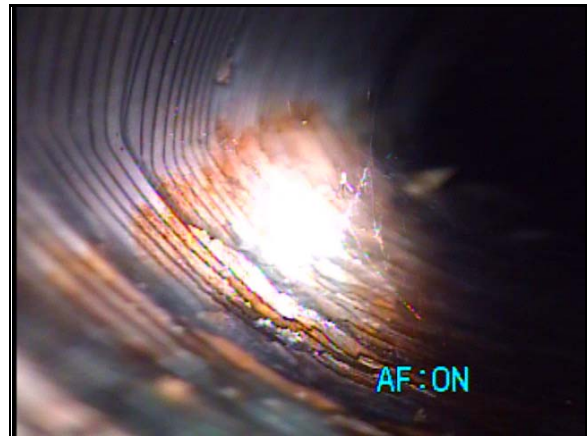
View inside outlet C



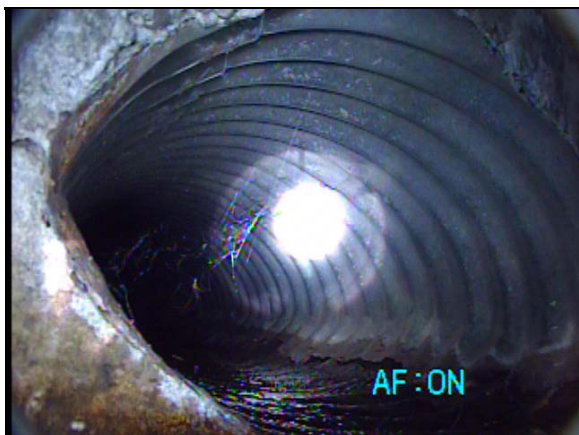
View inside outlet C



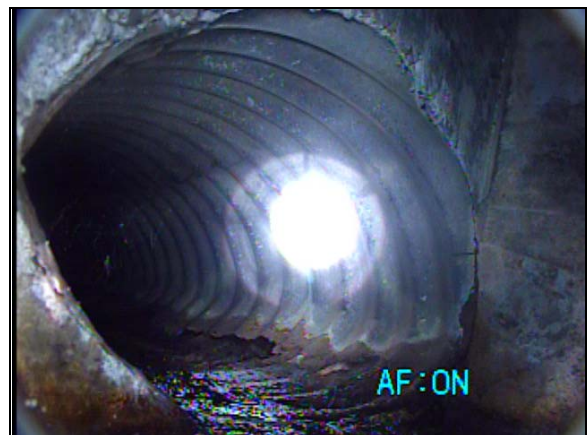
View inside outlet C



View inside outlet C



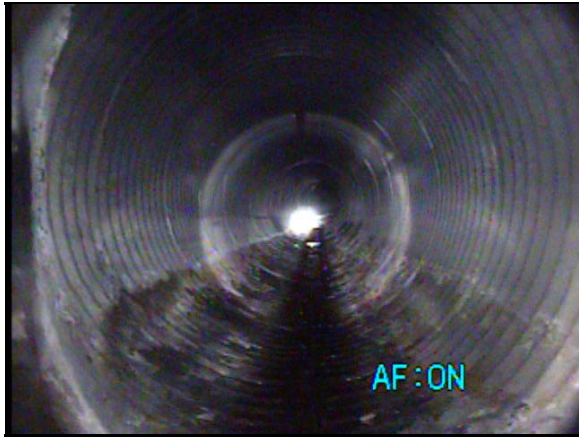
View of outlet D



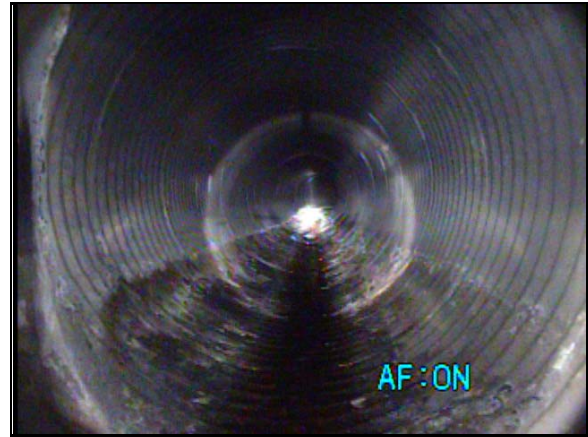
View of outlet D

SDFA 2 - Ventura Rd and Channel Islands Blvd

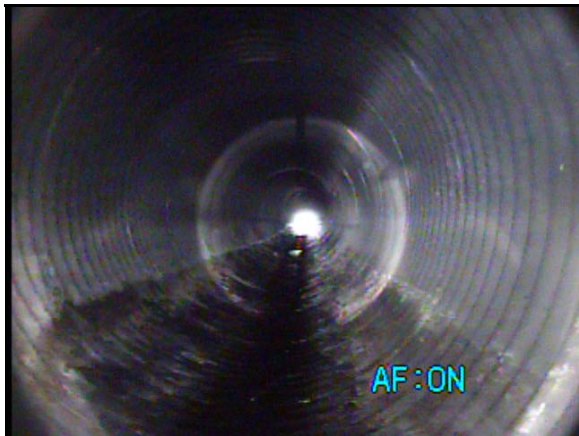
Culvert MH-L27-100



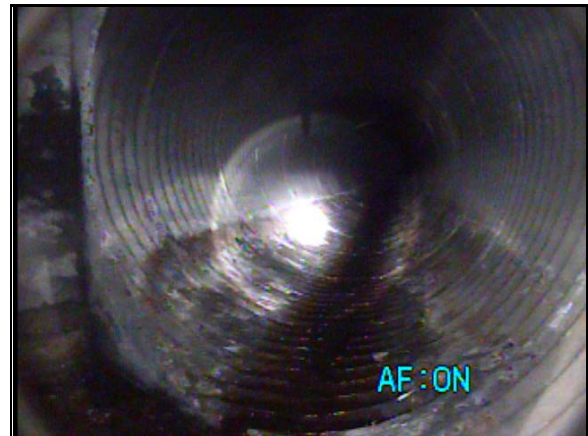
View of E inlet



View of E inlet



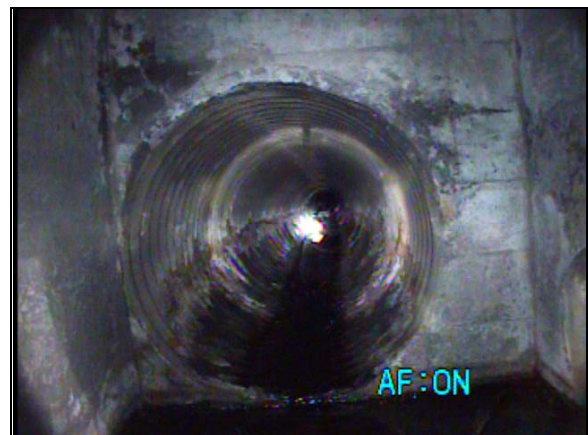
View of E inlet



View of E inlet



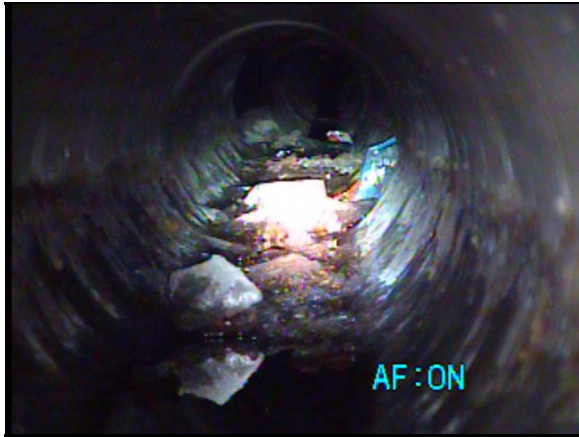
View of S inlet



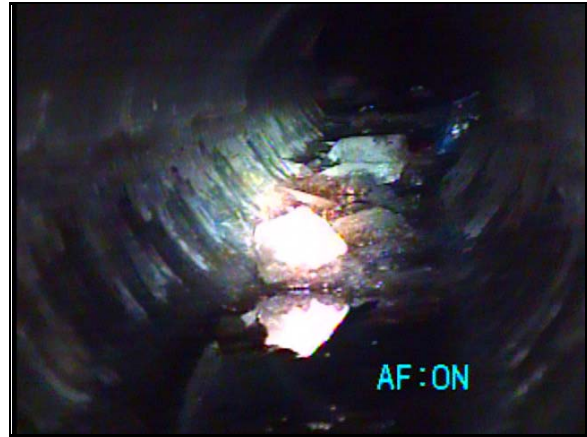
View of S inlet

SDFA 2 - Ventura Rd and Channel Islands Blvd

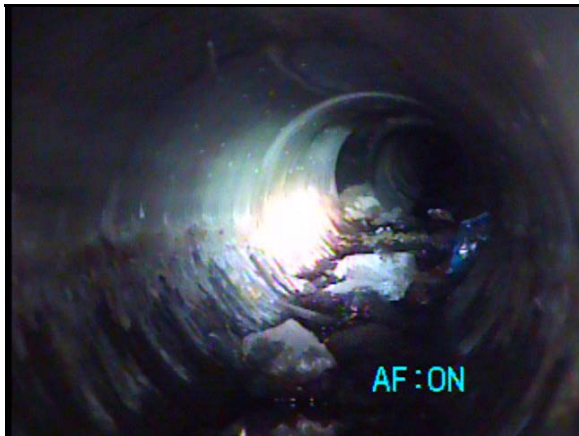
Culvert MH-L27-100



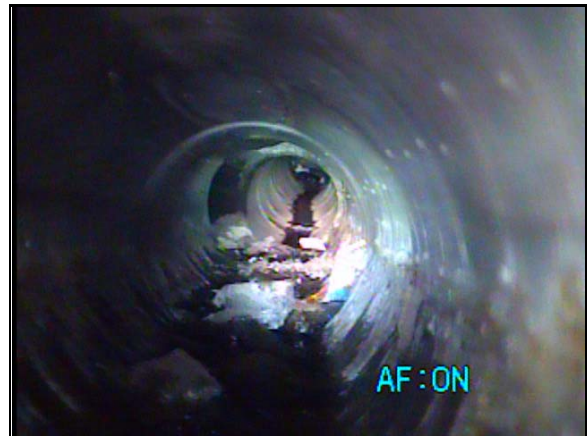
View of S inlet



View of S inlet



View of S inlet



View of S inlet

SDFA 2 - Ventura Rd and Channel Islands Blvd***Flood Zone FL 2***

Evaluation date/time: 9/18/2014 2:28 AM
 Address/location: Channel Islands Blvd and Ventura Rd
 Map grid reference:
 Weather: Dry

General Information

Latitude: 34.175602
 Longitude: -119.194751
 Property type: Public
 Access: Good
 Traffic: Heavy
 Ground surface type: Asphalt
 Dia./Ht. (in.): N/A
 Width (in.):
 Material: N/A
 Grade/rim-invert (ft.):
 Water level (%): 0
 Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: No
 Susceptible to ponding/flooding: Yes
 Sediment/debris depth (%):
 Type of sediment/debris N/A
 Infiltration in structure: N/A
 Obstruction/deflection:
 VANDA Condition Rating: N/A
 Prioritization Rating: Level 3 - Fair
 Prioritization Rationale: Location/Other
 Illegal dumping evidence: No

Notes

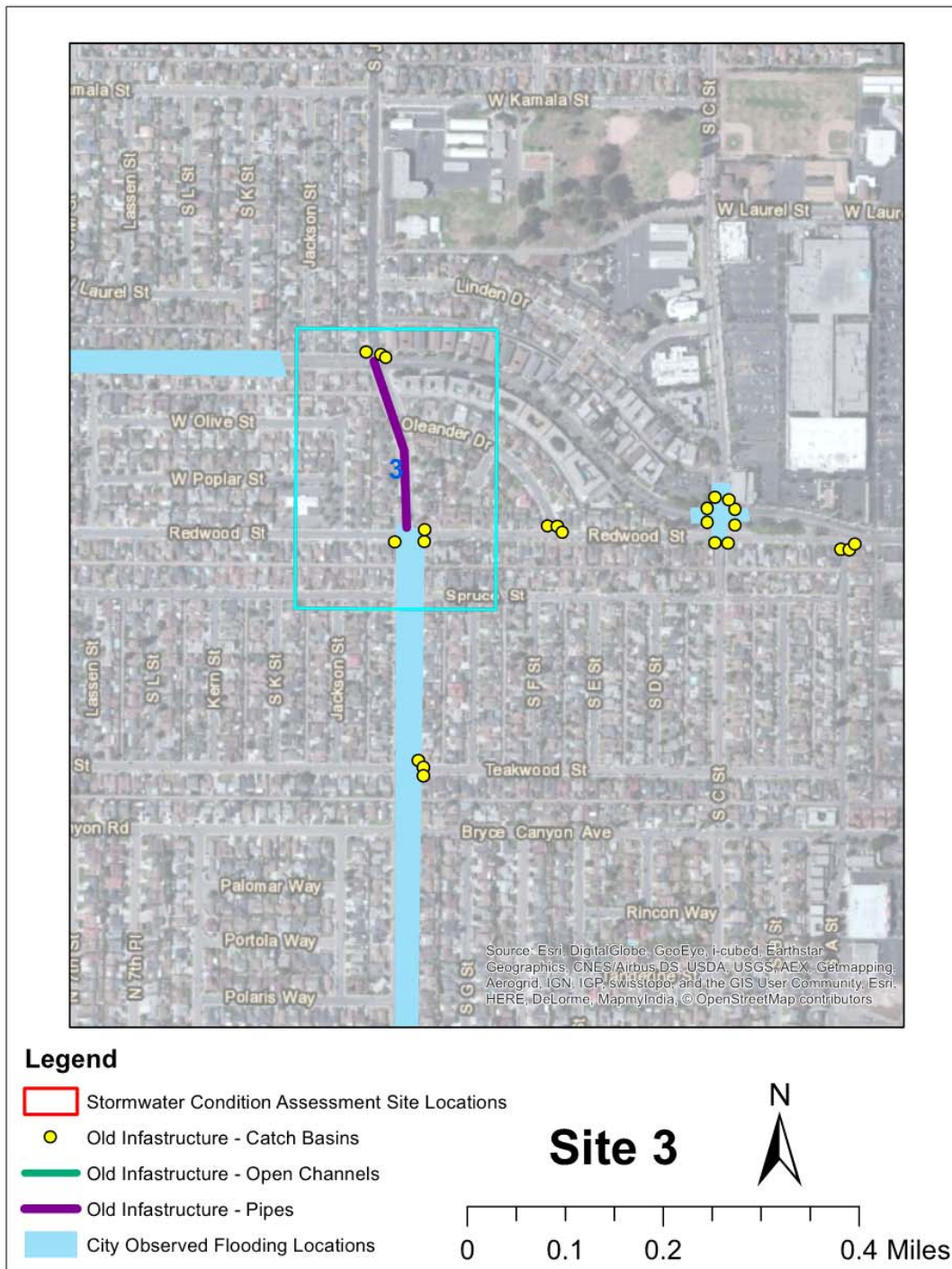
Area has history of flooding. Outlets may be under sized to handle flow. Inlet pipes are large in comparison.

Photos

Location View

SDFA 3 - J St

Area Map



SDFA 3 - J St

Catch Basin CB-M27-304

Evaluation date/time: 9/16/2014 6:24 PM
Address/location: J St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.175742
Longitude: -119.186318
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.1
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 25
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Lid was corroded shut.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M27-304_MH-M27-102	Out	SE	10H x 12W	CMP	2.1	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Coating in good condition, but appears there may be external corrosion on the CMP. Under roadway.

Photos

SDFA 3 - J St

Catch Basin CB-M27-304



Location view



Catch basin



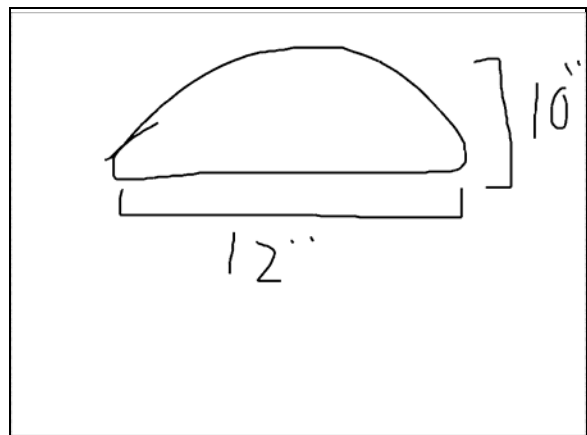
View inside catch basin



View inside catch basin



View inside catch basin



Sketch

SDFA 3 - J St

Catch Basin CB-M27-304



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe

SDFA 3 - J St

Catch Basin CB-M27-305

Evaluation date/time: 9/16/2014 6:10 PM
Address/location: J St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.175731
Longitude: -119.186103
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete/S and
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.2
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 50
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 4 - Poor
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

Cracking in concrete walls of catch basin. Connected to 10H x 12W CMP. Significant buildup of trash and debris.

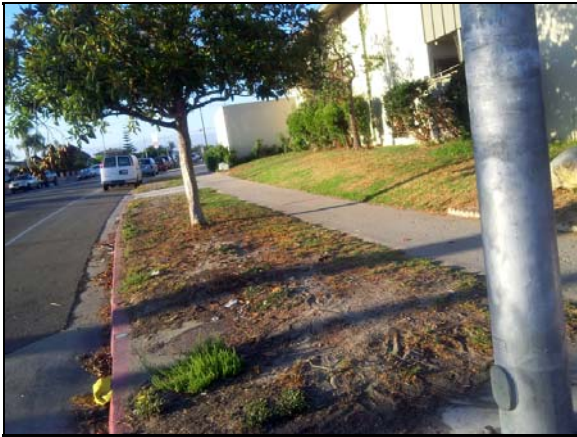
Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M27-305_MH-M27-102	Out	SW	10H x 12W	CMP	2.2	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Coal tar epoxy coated.

Photos

SDFA 3 - J St

Catch Basin CB-M27-305



Location view



Catch Basin



View inside catch basin



View inside catch basin



View inside outlet pipe



View of outlet

SDFA 3 - J St

Catch Basin CB-M27-306

Evaluation date/time: 9/16/2014 5:56 PM
Address/location: Channel Islands Blvd
Map grid reference:
Weather: Dry

General Information

Latitude:
Longitude:
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.2
Water level (%):
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 15
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Sediment
Illegal dumping evidence:

Notes

Significant buildup of trash and debris.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M27-306_MH-M27-102	Out	SW	10	CMP	2.2	0	10	Vegetation/Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 3 - J St

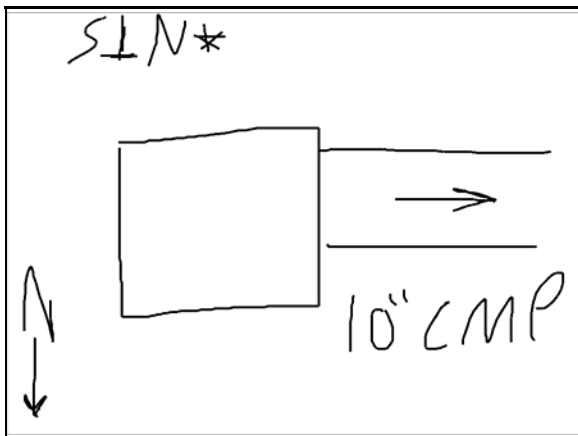
Catch Basin CB-M27-306



Location view



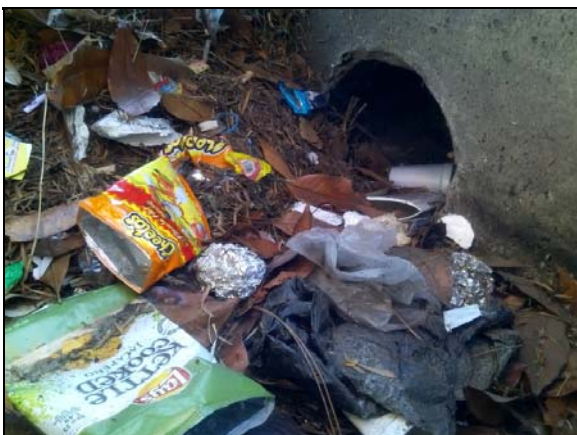
Catch basin



Sketch



View inside catch basin



View inside catch basin



View of outlet

SDFA 3 - J St

Catch Basin CB-M27-306



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe

SDFA 3 - J St

Catch Basin CB-M28-302

Evaluation date/time: 9/16/2014 7:06 PM
Address/location: Redwood St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.173478
Longitude: -119.185545
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.7
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Minor cracking in catch basin structure wall.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M28-302_JS-M28-502	Out	S	12	RCP	2.7	0	10	Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 3 - J St

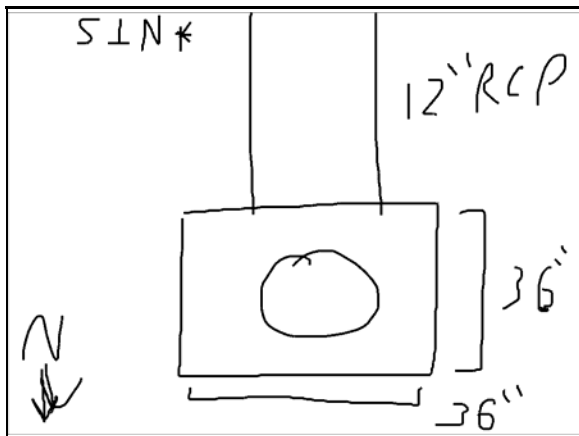
Catch Basin CB-M28-302



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



Cracking in wall

SDFA 3 - J St

Catch Basin CB-M28-302



View inside outlet pipe

SDFA 3 - J St

Catch Basin CB-M28-303

Evaluation date/time: 9/16/2014 6:52 PM
Address/location: Redwood St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.173338
Longitude: -119.185503
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition/Other
Illegal dumping evidence: No

Notes

No access point.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
MH-N28-104_JS-M28-502	In/O ut	W	36	RCB	4	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under sidewalk and roadway.

Photos

SDFA 3 - J St

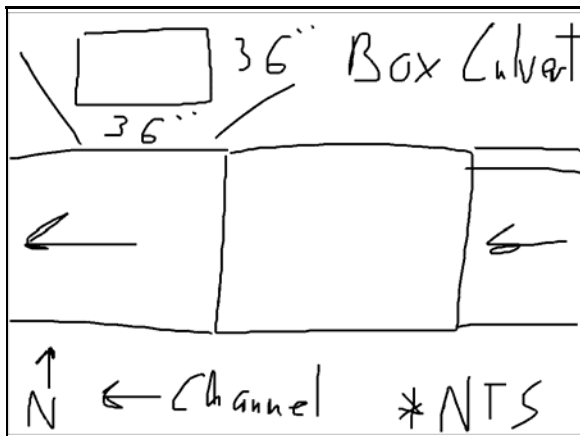
Catch Basin CB-M28-303



Location view



Catch basin



Sketch



View inside catch basin



View of outlet



View of inlet

SDFA 3 - J St

Catch Basin CB-M28-304

Evaluation date/time: 9/16/2014 6:43 PM
Address/location: Redwood St and J St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.17336
Longitude: -119.185889
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.1
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M28-304_JS-M28-503	Out	SE	10H x 12W	CMP	2.1	0		Unknown	Unknown	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Location	Under roadway.

Photos

SDFA 3 - J St

Catch Basin CB-M28-304



Location view



Catch basin



View inside catch basin



View inside catch basin



View of outlet

SDFA 3 - J St

Manhole MH-M27-101

Evaluation date/time: 9/18/2014 12:38 AM
Address/location: Channel Islands Blvd and J St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.175667
Longitude: -119.186232
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 36

Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.4
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 2 - Minor Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence: No

Notes

Under roadway at intersection. Hole in roadway that penetrates concrete structure.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M27-304_MH-M27-102	In	S	12	RCP	2.4	0	0	None	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Location	Under roadway.
CB-M27-305_MH-M27-102	In	S	12	RCP	2.4	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

SDFA 3 - J St

Manhole MH-M27-101

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M27-306_MH-M27-102	In	W	12	RCP	2.4	0	5	Gravel	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
MH-M27-102_JS-M28-501	Out	S	12H x 18W	CMP	2.4	0	20	Gravel/Rock	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Location/Sediment	Under roadway.

Photos



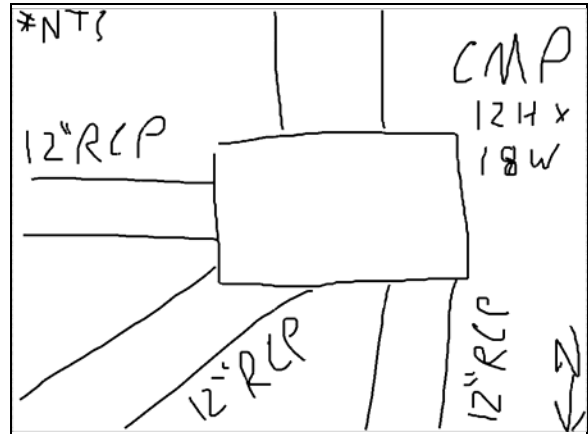
Location view



Access point



Hole



Sketch

SDFA 3 - J St

Manhole MH-M27-101



View of outlet



View of outlet



View of inlet



View of north inlet



View of inlets



View of north west inlet

SDFA 3 - J St

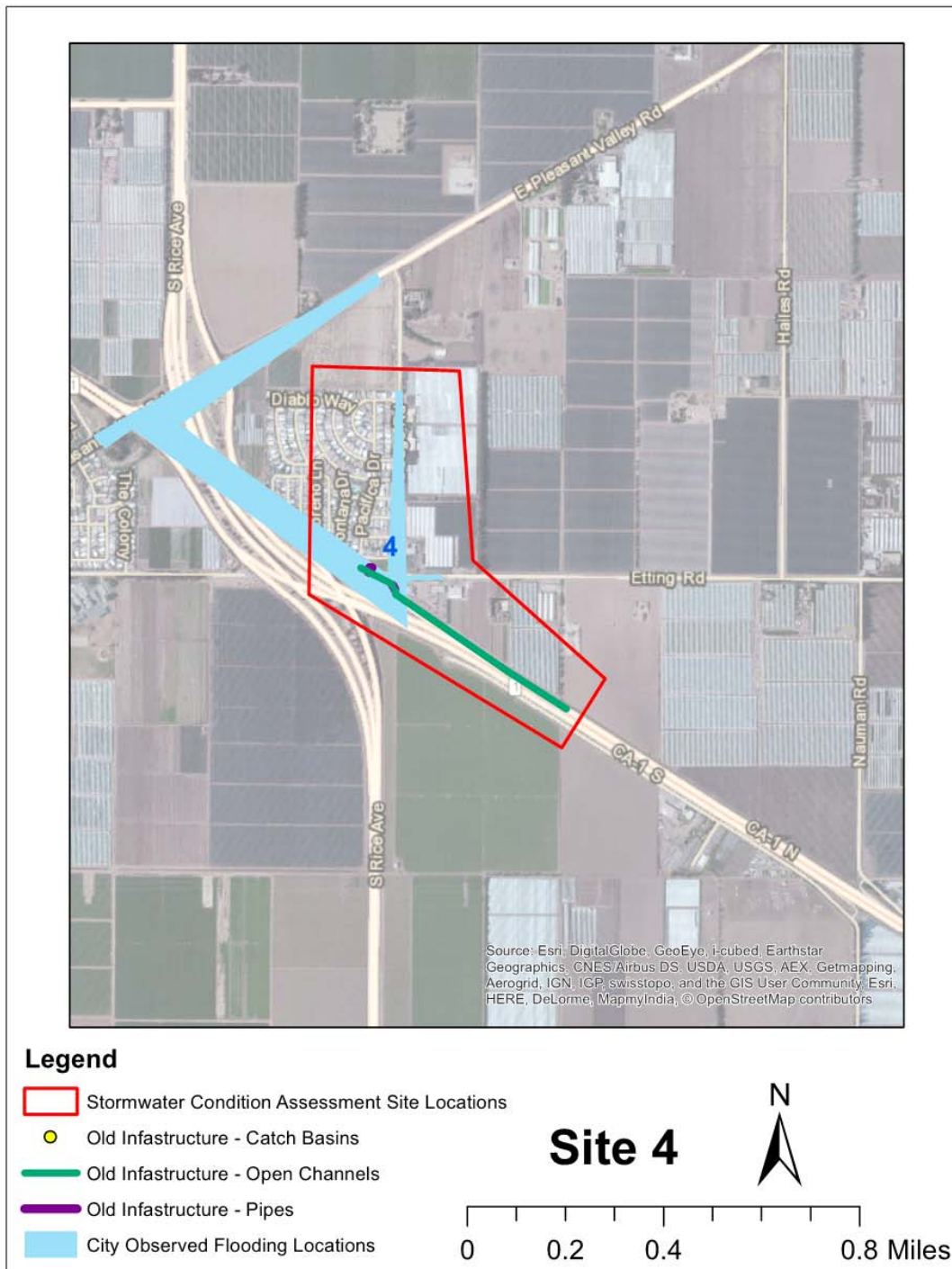
Manhole MH-M27-101



View of east inlet

SDFA 4 - Maulhardt Rd

Area Map



SDFA 4 - Maulhardt Rd

Channel JS-U30-502_IN-U30-1002

Evaluation date/time: 9/15/2014 5:55 PM
Address/location: Maulhardt Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.161848
Longitude: -119.137051
Property type: Public
Access: Fair
Traffic: Light
Ground surface type: Grass/Dirt
Dia./Ht. (in.): 36
Width (in.):
Material: Dirt
Grade/rim-invert (ft.): 2
Water level (%): 10
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 0
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
IN-U30-1001_JS-U30-501	In		36	Concret e	4	5	5	Silt/Vegetation	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	
IN-U30-1002_IN-U31-1000	Out		Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Condition/Loc ation	Unable to access to evaluate. Area has history of flooding.

SDFA 4 - Maulhardt Rd

Channel JS-U30-502_IN-U30-1002

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
JS-U30-501_JS-U30-502	In		36	Dirt	2	5	0	Silt/Vegetation	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	
JS-U31-500_JS-U31-501	Out		Unknown	Unknown				Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Location	Unable to access to evaluate. Area has history of flooding.
JS-U31-501_DL-V31-800	Out		Unknown	Unknown				Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Location	Unable to access to evaluate. Area has history of flooding.
RR-U31-800_JS-U31-500	Out		Unknown	Unknown				Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Location	Unable to access to evaluate. Area has history of flooding.

Photos



View of channel



View of upstream channel

SDFA 4 - Maulhardt Rd

Channel JS-U30-502_IN-U30-1002



View of upstream channel



View of channel

SDFA 4 - Maulhardt Rd

Culvert HW-U30-800_JS-U30-502

Evaluation date/time: 9/15/2014 5:33 PM
Address/location: Maulhardt Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.161934
Longitude: -119.136922
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete/
Grass/Dirt
Dia./Ht. (in.): 16
Width (in.): 30
Material: CMP
Grade/rim-invert (ft.): 3.75
Water level (%): 5
Devices: Headwall

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 15
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 3 - Moderate
Damage
Prioritization Rating: Level 4 - Poor
Prioritization Rationale: Condition/Location
Illegal dumping evidence: No

Notes

Under roadway. Moderate corrosion on pipe invert.

Photos

SDFA 4 - Maulhardt Rd

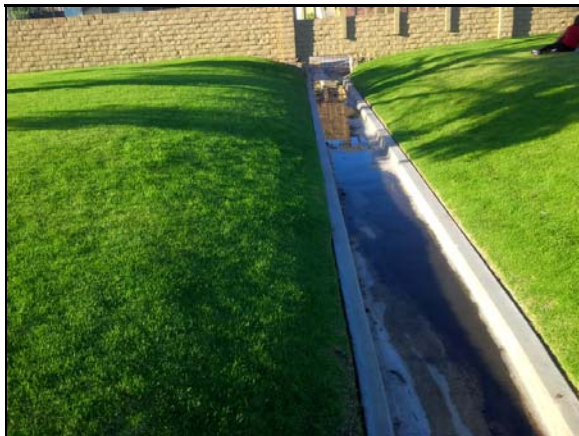
Culvert HW-U30-800_JS-U30-502



Location view



View of inlet



View upstream



View inside pipe from inlet



View downstream

SDFA 4 - Maulhardt Rd

Culvert IN-U30-1000_JS-U30-501

Evaluation date/time: 9/15/2014 5:43 PM
Address/location: Maulhardt Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.161869
Longitude: -119.137137
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete/Grass/Dirt
Dia./Ht. (in.): 18
Width (in.): 24
Material: CMP
Grade/rim-invert (ft.): 2.7
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 5
Type of sediment/debris: Silt
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 3 - Moderate Damage
Prioritization Rating: Level 4 - Poor
Prioritization Rationale: Condition/Location
Illegal dumping evidence: No

Notes

Under roadway. Unable to remove grate at time of assessment.

Photos

SDFA 4 - Maulhardt Rd

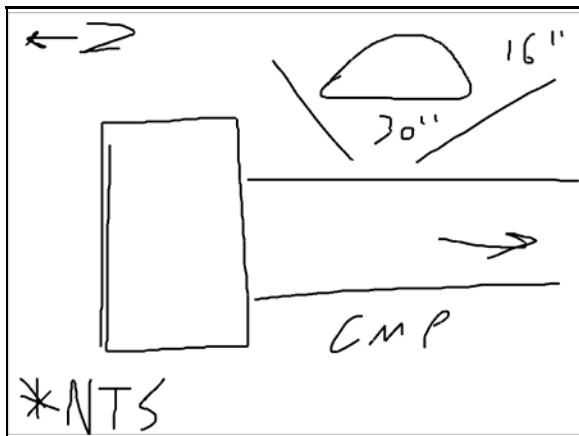
Culvert IN-U30-1000_JS-U30-501



Location view



Catch basin



Sketch



View of outlet



View of outlet



View downstream

SDFA 4 - Maulhardt Rd

Flood Zone FL 4

Evaluation date/time: 9/15/2014 6:04 PM
Address/location: Maulhardt Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.16173
Longitude: -119.136643
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt
Dia./Ht. (in.): N/A
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices:

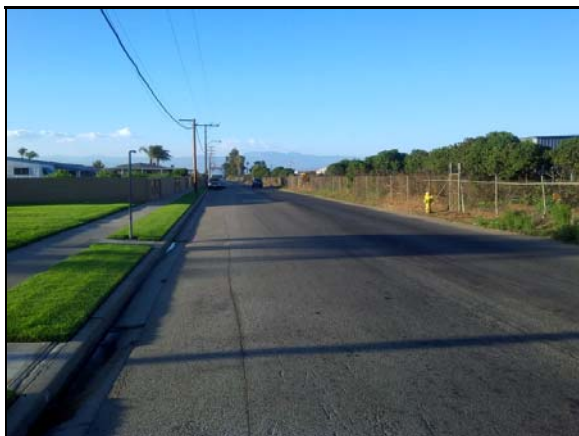
Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Other
Illegal dumping evidence: No

Notes

Area has history of flooding. Open channel may be undersized.

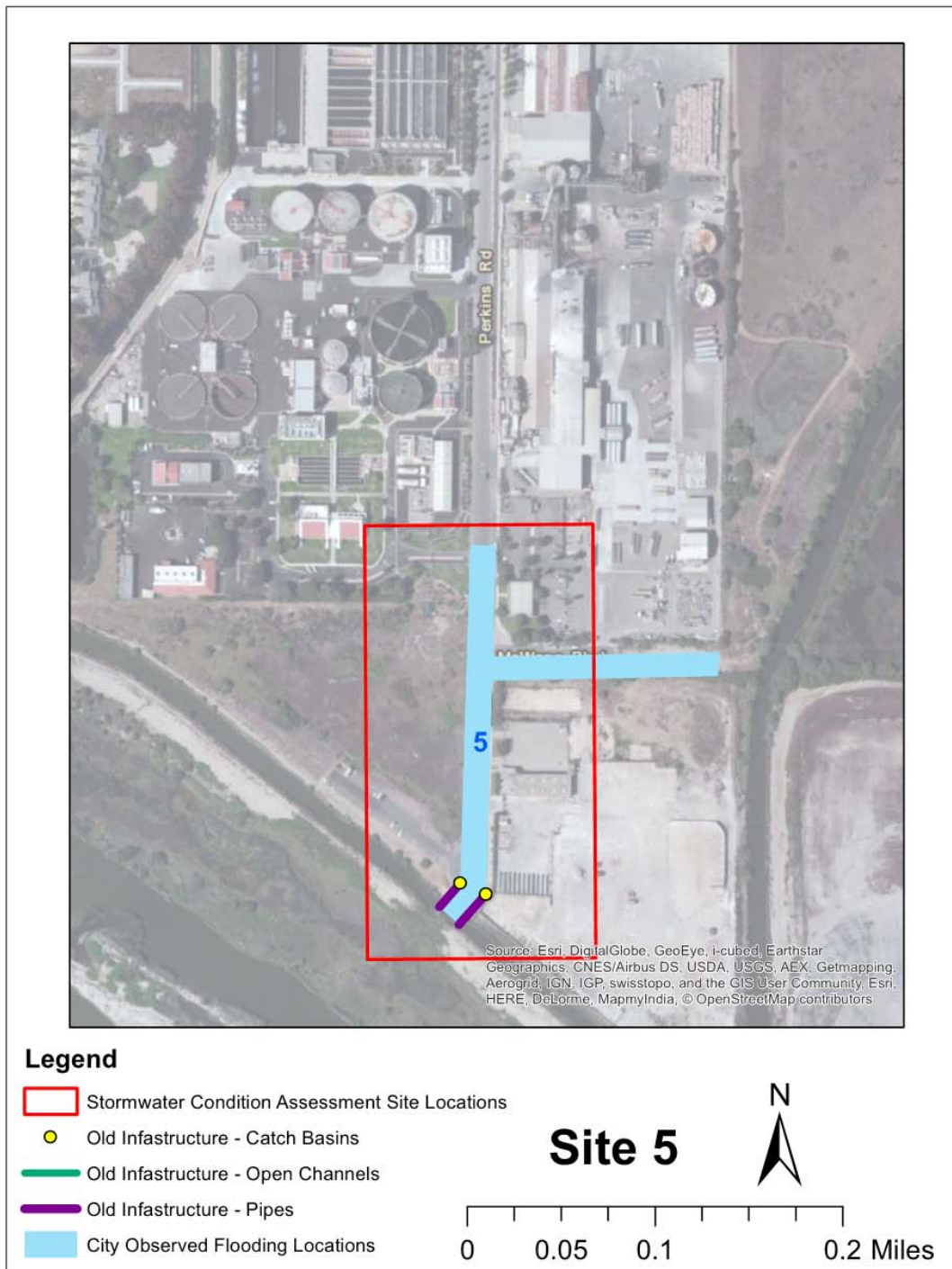
Photos



Location View

SDFA 5 - Perkins Rd

Area Map



SDFA 5 - Perkins Rd

Catch Basin CB-N36-301

Evaluation date/time: 9/15/2014 1:38 PM
Address/location: Perkins Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.138727
Longitude: -119.184194
Property type: Public
Access: Good
Traffic: None
Ground surface type: Concrete/Asphalt/Dirt
Dia./Ht. (in.): 145
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4
Water level (%): 100
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Other
Illegal dumping evidence: No

Notes

Catch basin filled with water. May be influenced by tide.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N36-301_JS-N36-500	Out	SW	Unknown	Unknown				Unknown	Unknown		Unknown	Level 3 - Fair	Location/Other	Area has history of flooding. May be influenced by tide.

Photos

SDFA 5 - Perkins Rd

Catch Basin CB-N36-301



Catch basin



Vault



Debris screen



View inside catch basin



Catch basin flooded

SDFA 5 - Perkins Rd

Catch Basin CB-N36-302

Evaluation date/time: 9/15/2014 1:52 PM
Address/location: Perkins Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.138674
Longitude: -119.184
Property type: Private
Access: Poor
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.):
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth:
Susceptible to ponding/flooding:
Sediment/debris depth (%):
Type of sediment/debris Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Absence
Illegal dumping evidence: No

Notes

Unable to locate. May be within condemned area.

Photos



Location view



Location view

SDFA 5 - Perkins Rd

Flood Zone FL 5

Evaluation date/time: 9/15/2014 1:55 PM
Address/location: Perkins Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.138663
Longitude: -119.184043
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete/
Grass/Dirt
Dia./Ht. (in.): N/A
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%):
Type of sediment/debris N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Other
Illegal dumping evidence: No

Notes

Area has history of flooding. May be influenced by tide. Nearby lift station may not be operational.

Photos

SDFA 5 - Perkins Rd

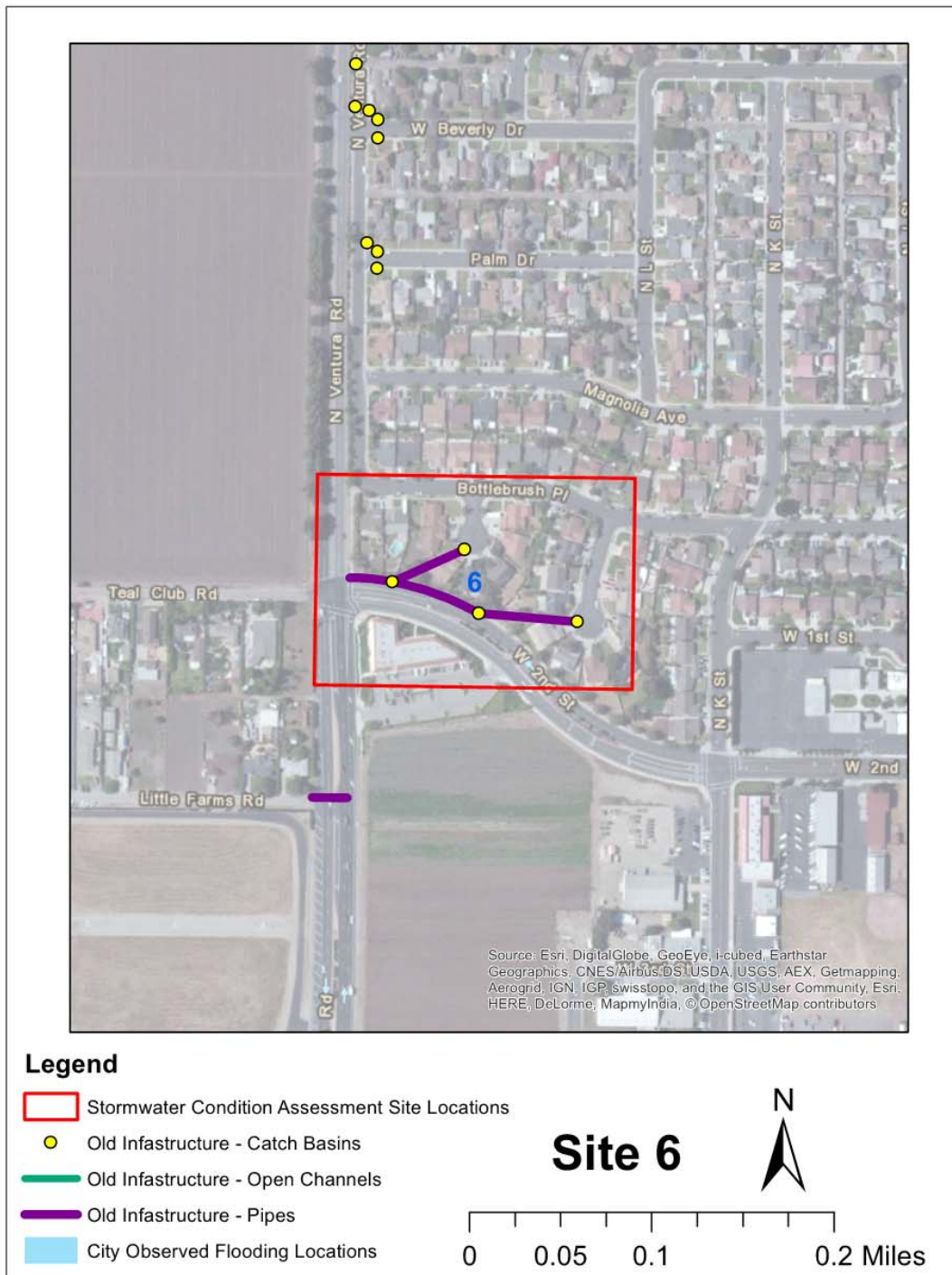
Flood Zone FL 5



Location View

SDFA 6 - 2nd St

Area Map



SDFA 6 - 2nd St

Catch Basin CB-L20-320

Evaluation date/time: 9/13/2014 10:29 AM
Address/location: Bottlebrush Ct
Map grid reference:
Weather: Dry

General Information

Latitude: 34.203315
Longitude: -119.193614
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 120
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.8
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 10.0
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 2 - Minor Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Other
Illegal dumping evidence: No

Notes

Cracking at pipe inlet. Possible odor issues due to sediment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L20-320_CB-L21-300	Out	NW	16	RCP	2.8	5	15	Silt	None	0	Level 1 - No Damage	Level 2 - Good	Condition/Sediment	

Photos

SDFA 6 - 2nd St

Catch Basin CB-L20-320



Location view



Catch basin



View of outlet



View inside outlet pipe

SDFA 6 - 2nd St

Catch Basin CB-L21-300

Evaluation date/time: 9/13/2014 9:30 AM
Address/location: W 2nd St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.203057
Longitude: -119.1943
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 168
Width (in.): 54
Material: Concrete
Grade/rim-invert (ft.): 3.75
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to box culvert CB-L21-300_JS-L21-500, 24-inch CB-L20-320_CB-L21-300, and 24-inch CB-L21-301_CB-L21-300.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L20-320_CB-L21-300	In	S	24	RCP	2.8	0		Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Loc ation	Under residences. Unable to evaluate due to placement within catch basin.
CB-L21-300_JS-L21-500	Out	W	26H x 54W	RCB	2.8	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

SDFA 6 - 2nd St

Catch Basin CB-L21-300

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L21-301_CB-L21-300	In	W	24	RCP	2.8	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

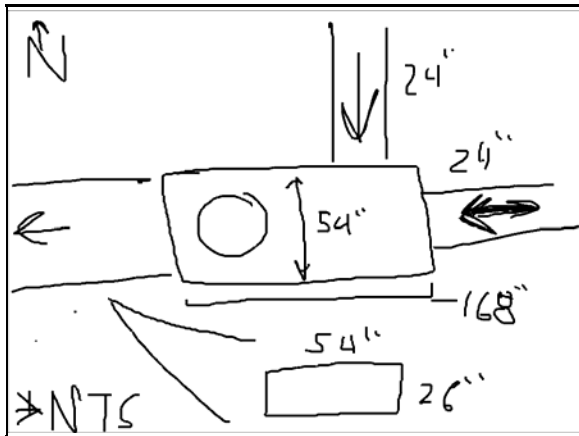
Photos



Location view



Catch basin



Sketch



View of inlets

SDFA 6 - 2nd St

Catch Basin CB-L21-300



View inside E inlet pipe



View inside E inlet pipe



View of N inlet



View of outlet



View of outlet

SDFA 6 - 2nd St

Catch Basin CB-L21-301

Evaluation date/time: 9/13/2014 8:55 AM
Address/location: W 2nd St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.202768
Longitude: -119.193571
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Lid is bolted down and was not removed.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L21-301_CB-L21-300	Out	W	24	RCP	3	0	5	Vegetation/Silt	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	
CB-L21-302_CB-L21-301	In	W	24	RCP	3	0	5	Vegetation/Silt	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos

SDFA 6 - 2nd St

Catch Basin CB-L21-301



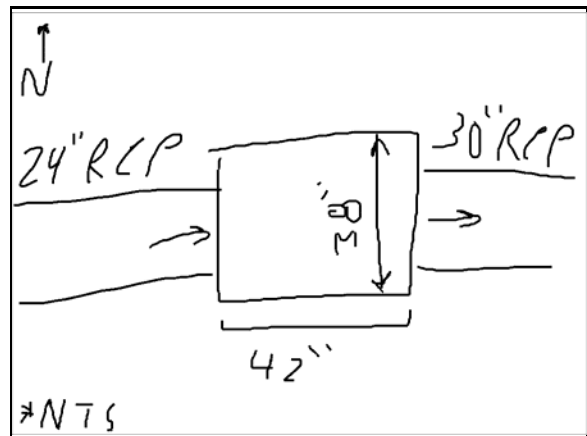
Location view



Bolted cover



Catch basin



Sketch



View of outlet



View of inlet

SDFA 6 - 2nd St

Catch Basin CB-L21-302

Evaluation date/time: 9/13/2014 11:02 AM
Address/location: Bottlebrush Cir
Map grid reference:
Weather: Dry

General Information

Latitude: 34.202671
Longitude: -119.192884
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 120
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.7
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition/Other
Illegal dumping evidence: No

Notes

Resident stated area has history of flooding over curb.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L21-302_CB-L21-301	Out	NW	24	RCP	2.7	5	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos

SDFA 6 - 2nd St

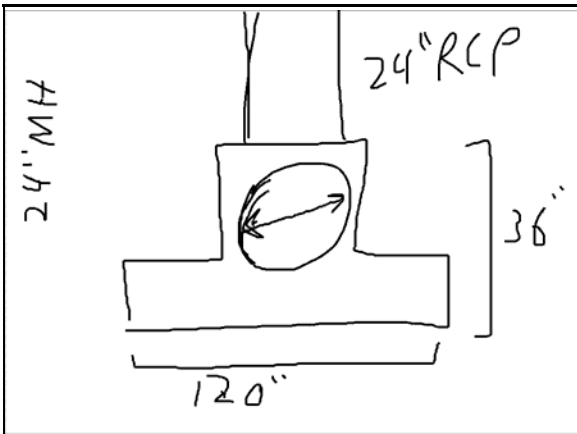
Catch Basin CB-L21-302



Location view



Catch basin



Sketch



View inside catch basin



View of outlet



View inside pipe from outlet

SDFA 6 - 2nd St

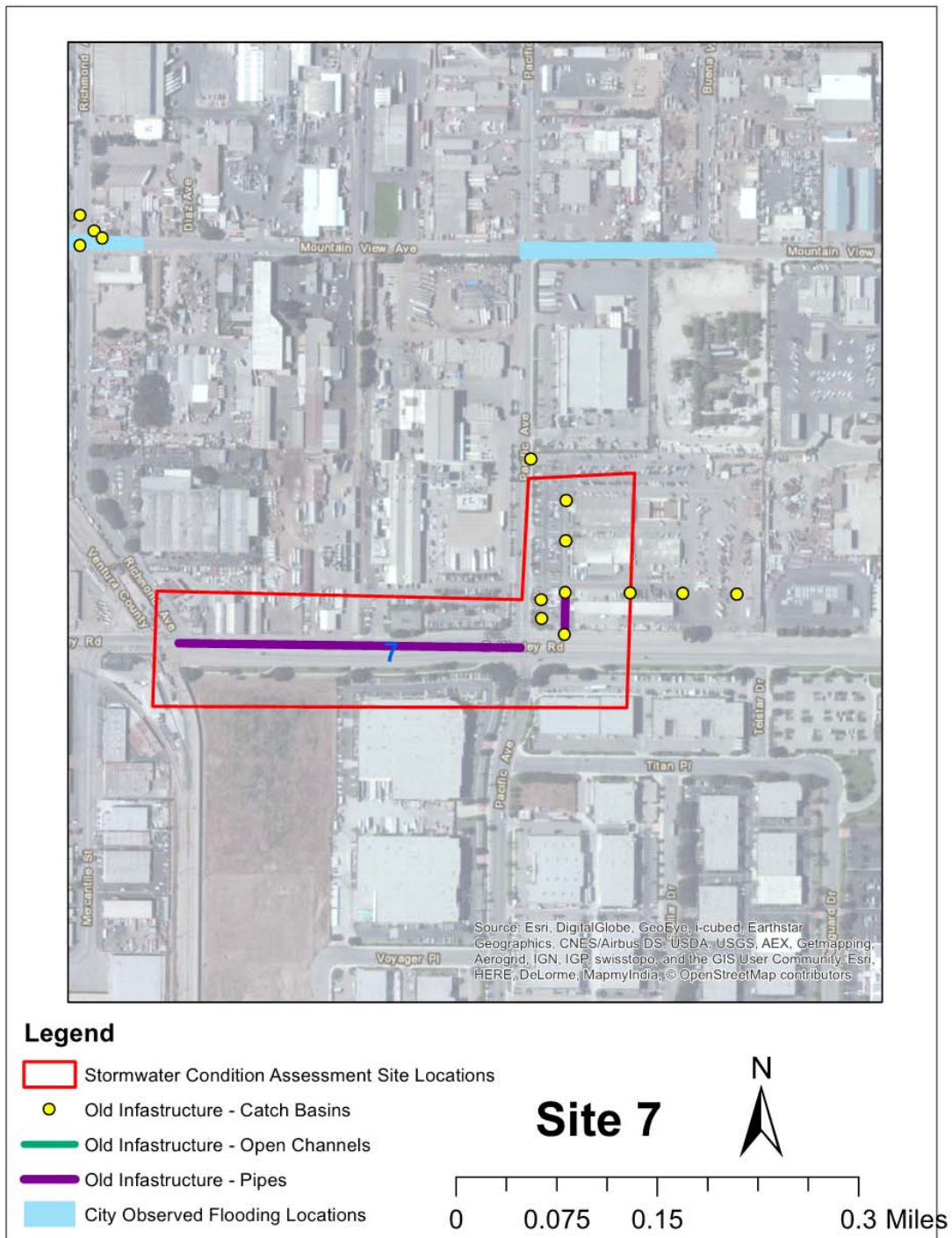
Catch Basin CB-L21-302



View inside pipe from outlet

SDFA 7 - Wooley Rd

Area Map



SDFA 7 - Wooley Rd

Catch Basin CB-P23-317

Evaluation date/time: 9/16/2014 9:09 AM
Address/location: Pacific Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.191223
Longitude: -119.164495
Property type:
Access:
Traffic:
Ground surface type:
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.): 0
Water level (%):
Devices:

Condition Information and Ratings

Susceptible to burial/overgrowth:
Susceptible to ponding/flooding:
Sediment/debris depth (%):
Type of sediment/debris Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Absence
Illegal dumping evidence:

Notes

Unable to locate.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P23-317_CB-P23-318	Out	S	Unknown	Unknown				Unknown	Unknown		Unknown	Level 3 - Fair	Absence	Unable to locate.

Photos

SDFA 7 - Wooley Rd

Catch Basin CB-P23-317



Location view

SDFA 7 - Wooley Rd

Catch Basin CB-P23-318

Evaluation date/time: 9/16/2014 9:04 AM
Address/location: Pacific Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190826
Longitude: -119.164474
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices:

Condition Information and Ratings

Susceptible to burial/overgrowth:
Susceptible to ponding/flooding:
Sediment/debris depth (%):
Type of sediment/debris Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Absence
Illegal dumping evidence:

Notes

Unable to locate.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P23-317_CB-P23-318	In	S	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Absence	Unable to locate.
CB-P23-318_CB-P24-300	Out	S	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Absence	Unable to locate.

Photos

SDFA 7 - Wooley Rd

Catch Basin CB-P23-318



Location view

SDFA 7 - Wooley Rd

Catch Basin CB-P24-300

Evaluation date/time: 9/16/2014 9:13 AM
Address/location: Pacific Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190215
Longitude: -119.164388
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Unknown
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Absence
Illegal dumping evidence:

Notes

Unable to locate.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P23-318_CB-P24-300	In	S	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Absence	Unable to locate.
CB-P24-300_CB-P24-307	Out	S	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Absence	Unable to locate.

SDFA 7 - Wooley Rd

Catch Basin CB-P24-300

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-024-300_CB-P24-300	In	S	Unknown	Unknown				Unknown	Unknown		Unknown	Level 3 - Fair	Absence	Unable to locate.

Photos



Location view

SDFA 7 - Wooley Rd

Catch Basin CB-P24-301

Evaluation date/time: 9/16/2014 8:52 AM
Address/location: Pacific Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190247
Longitude: -119.164667
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 18
Width (in.): 12
Material: Concrete
Grade/rim-invert (ft.): 0.5
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 50
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 4 - Poor
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P24-301_CB-P24-303	Out	S	4	CAS	0.5	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under parking lot.

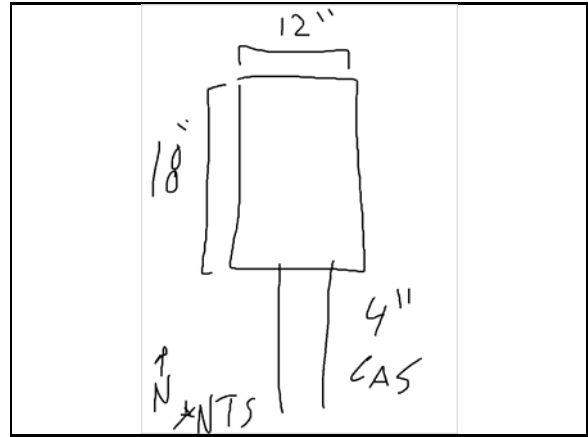
Photos

SDFA 7 - Wooley Rd

Catch Basin CB-P24-301



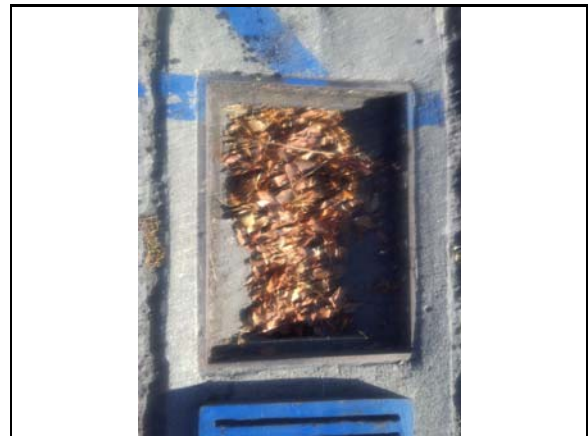
Location view



Sketch



Catch basin



View inside catch basin



View inside outlet pipe

SDFA 7 - Wooley Rd

Catch Basin CB-P24-303

Evaluation date/time: 9/16/2014 8:40 AM
Address/location: Pacific Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190247
Longitude: -119.164667
Property type: Public
Access: Good
Traffic: None
Ground surface type: Concrete
Dia./Ht. (in.): 18
Width (in.): 12
Material: N/A
Grade/rim-invert (ft.): 1.9
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 4-inch DIP and 8-inch RCP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P24-301_CB-P24-303	In	S	4	CAS	1.1	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under parking lot.
CB-P24-303_JS-P24-502	Out	S	8	RCP	1.9	0	5	Vegetation	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under parking lot.

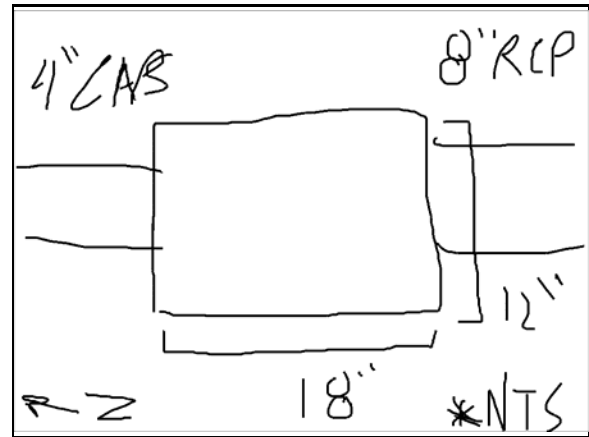
Photos

SDFA 7 - Wooley Rd

Catch Basin CB-P24-303



Location view



Sketch



Catch basin



View inside catch basin



View inside inlet pipe



View inside outlet pipe

SDFA 7 - Wooley Rd

Catch Basin CB-P24-307

Evaluation date/time: 9/16/2014 9:25 AM
Address/location: Pacific Ave and W Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190065
Longitude: -119.164689
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 80
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.9
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Cracking at inlet pipe. Connected to two 18-inch RCP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P24-300_CB-P24-307	In	S	18	RCP	4.9	0	5	Vegetation/Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	
CB-P24-307_JS-P24-502	Out	W	18	RCP	4.9	0	5	Vegetation/Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos

SDFA 7 - Wooley Rd

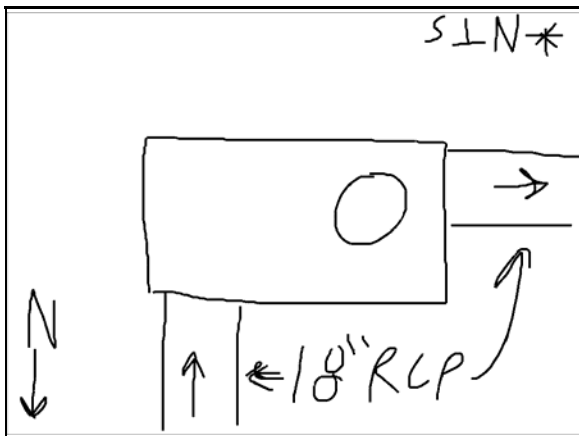
Catch Basin CB-P24-307



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View of outlet

SDFA 7 - Wooley Rd

Catch Basin CB-P24-307



View of inlet

SDFA 7 - Wooley Rd

Catch Basin CB-Q24-300

Evaluation date/time: 9/16/2014 9:20 AM
Address/location: Pacific Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190472
Longitude: -119.16383
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt
Dia./Ht. (in.): N/A
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices:

Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: N/A
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Absence
Illegal dumping evidence: No

Notes

Does not exist.

Photos



Location View

SDFA 7 - Wooley Rd

Manhole MH-P24-103

Evaluation date/time: 9/18/2014 4:34 AM
Address/location: Pacific Ave and W Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.189957
Longitude: -119.164839
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 36
Width (in.): 36
Material: RCP
Grade/rim-invert (ft.): 8
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Grave/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
MH-P23-107_MH-P24-103	In	S	30	RCP	8	5	5	Silt/Rock	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
MH-P24-103_JS-P24-504	Out	W	36	RCP	8	5	10	Silt/Vegetation/Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

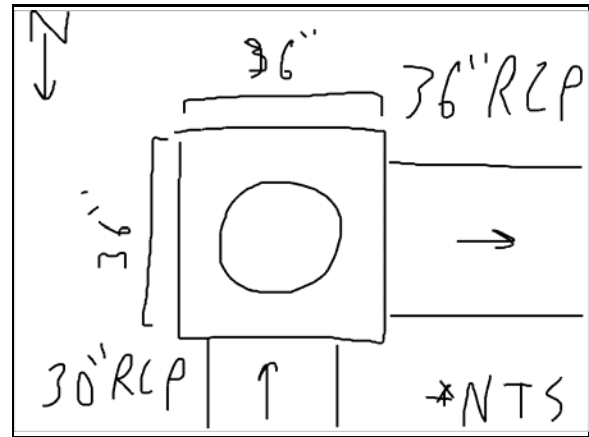
Photos

SDFA 7 - Wooley Rd

Manhole MH-P24-103



Location view



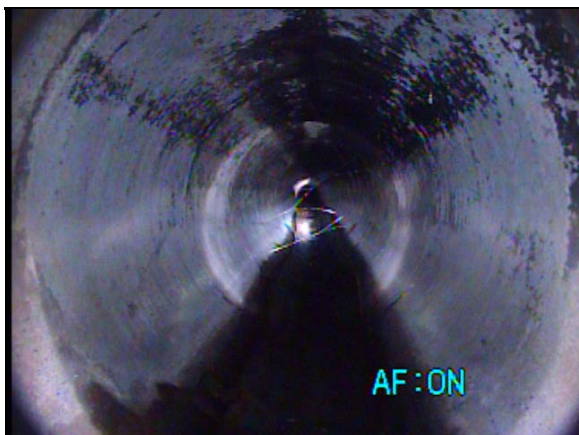
Sketch



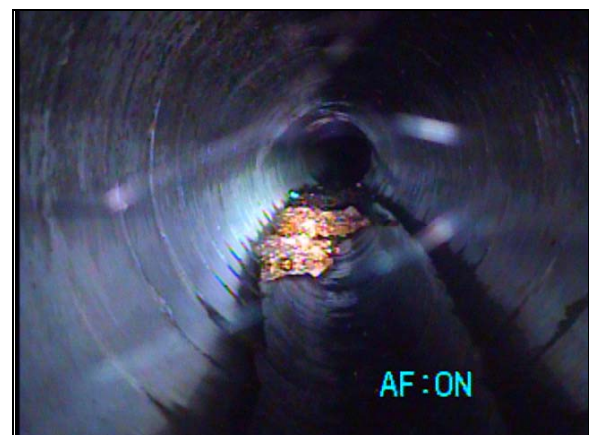
View inside manhole



View of outlet



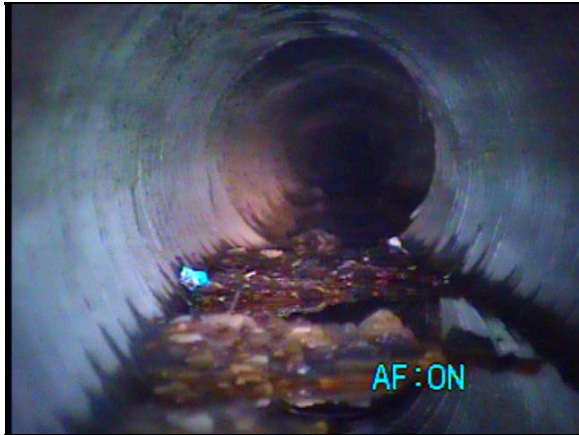
View inside outlet pipe



View inside outlet pipe

SDFA 7 - Wooley Rd

Manhole MH-P24-103



View inside outlet pipe



View inside outlet pipe



View of inlet



View inside inlet pipe



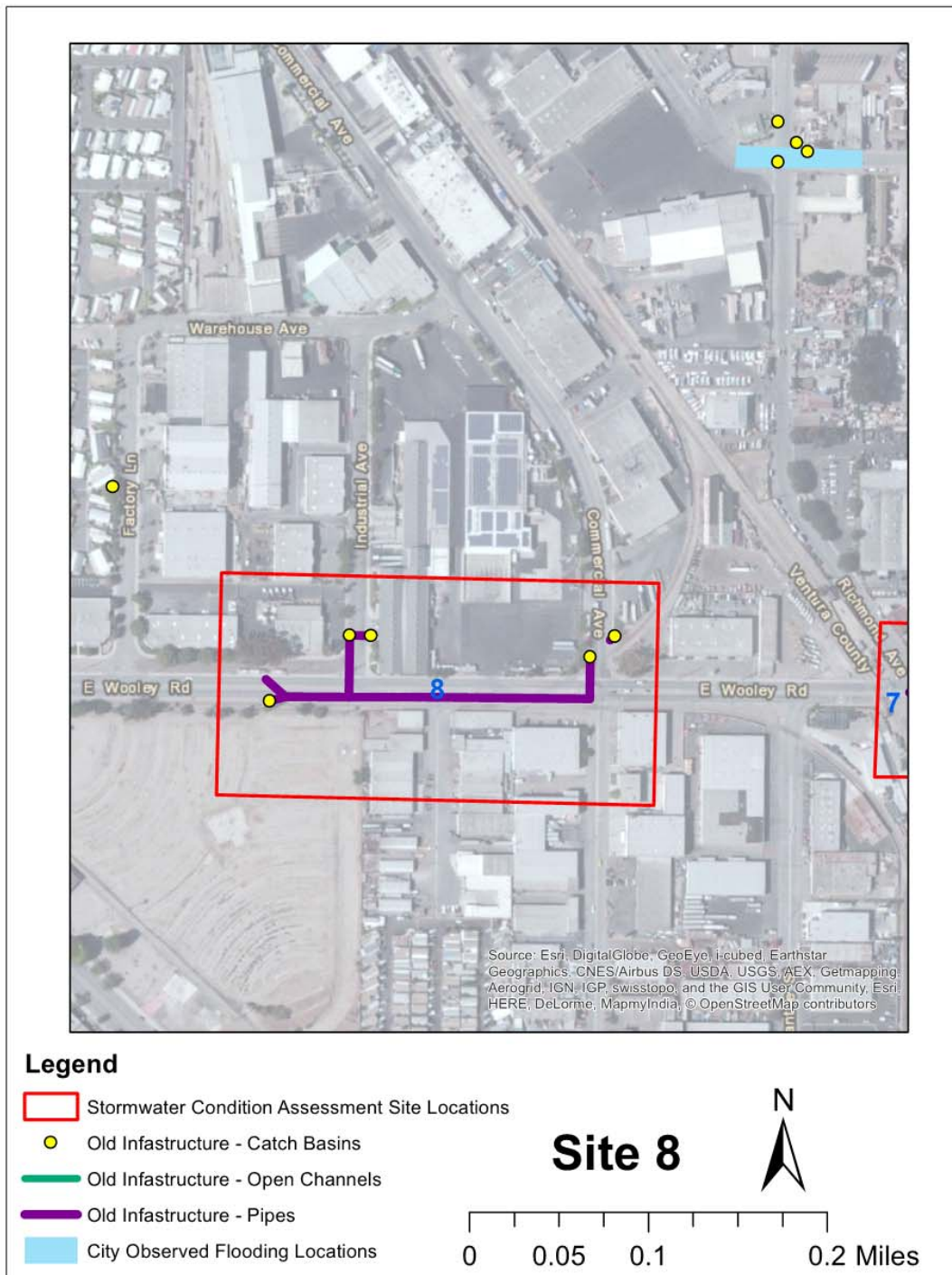
View inside inlet pipe



View inside inlet pipe

SDFA 8 - Wooley Rd

Area Map



SDFA 8 - Wooley Rd

Catch Basin CB-024-300

Evaluation date/time: 9/15/2014 7:08 PM
Address/location: Pacific Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190344
Longitude: -119.173143
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 80
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 1.75
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 20
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Connected to two 10H x 18W CMP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-024-300_MH-024-102	Out	S	10H x 18W	CMP	1.1	0	75	Trash/Vegetation	None	0	Level 1 - No Damage	Level 5 - Immediate Attention	Sediment/Location	Under roadway.
CB-024-302_CB-024-300	In	W	10H x 18W	CMP	1.1	0	50	Trash/Vegetation	None	0	Level 1 - No Damage	Level 4 - Poor	Sediment/Location	Under roadway.

Photos

SDFA 8 - Wooley Rd

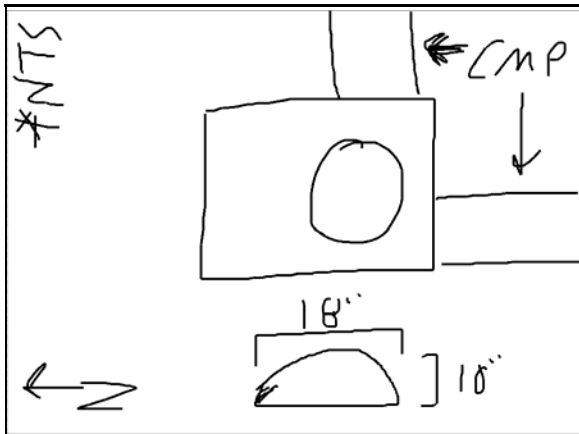
Catch Basin CB-024-300



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View inside outlet pipe

SDFA 8 - Wooley Rd

Catch Basin CB-O24-300



View inside outlet pipe



View inside inlet pipe

SDFA 8 - Wooley Rd

Catch Basin CB-O24-302

Evaluation date/time: 9/15/2014 7:05 PM
Address/location: Industrial Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190333
Longitude: -119.172928
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 51
Width (in.): 41
Material: Concrete
Grade/rim-invert (ft.): 1.1
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to CB-O24-302_CB-O24-300. Did not remove grate at time of assessment due to semi traffic in area.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-O24-302_CB-O24-300	Out	W	10H x 18W	CMP	1.1	0	50	Trash/Vegetation	None	0	Level 1 - No Damage	Level 4 - Poor	Sediment/Loc ation	Under roadway.

Photos

SDFA 8 - Wooley Rd

Catch Basin CB-O24-302



SDFA 8 - Wooley Rd

Catch Basin CB-024-304

Evaluation date/time: 9/15/2014 6:32 PM
Address/location: Commercial Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190269
Longitude: -119.170997
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3.1
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 2 - Minor Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition/Location
Illegal dumping evidence: No

Notes

Invert of CMP missing. Concrete missing and exposed reinforcing steel at chimney.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CR-024-801_MH-024-100	Out	SW	18H x 30W	CMP	3.1	0	10	Silt/Vegetation/Trash	Unknown	0	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition	Under roadway.

Photos

SDFA 8 - Wooley Rd

Catch Basin CB-024-304



Location view



Exposed reinforcing steel



View inside catch basin



View of outlet



View inside outlet pipe



View inside outlet pipe

SDFA 8 - Wooley Rd

Catch Basin CB-024-308

Evaluation date/time: 9/15/2014 6:47 PM
Address/location: Commercial Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190108
Longitude: -119.171212
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 80
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove lid. Bolted down.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-024-308_MH-024-104	Out	S	12H x 18W	CMP	1.1	0	5	Silt	Unknow n		Level 2 - Minor Damage	Level 3 - Fair	Condition/Loc ation	Under roadway.
PL-024-1200_PL-024-1201	In	SW	Unkn own	Unknow n	1.1	0	100	Trash/Vegetati on	Unknow n		Unknown	Level 5 - Immediate Attention	Condition/Sed iment	Under roadway. Unknown if there is actually a pipe present.

Photos

SDFA 8 - Wooley Rd

Catch Basin CB-024-308



Location view



Catch basin



View inside catch basin



View inside catch basin



View inside catch basin



View of outlet

SDFA 8 - Wooley Rd

Catch Basin CB-O24-308



View of inlet

SDFA 8 - Wooley Rd

Catch Basin CB-024-310

Evaluation date/time: 9/15/2014 7:31 PM
Address/location: E Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.189861
Longitude: -119.173787
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Grass/Dirt
Dia./Ht. (in.): 36
Width (in.): 36

Material: Concrete
Grade/rim-invert (ft.): 3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 75
Type of sediment/debris: Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 5 - Immediate Attention
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-024-310_JS-024-503	Out	NE	18	RCP	3	0	10	Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 8 - Wooley Rd

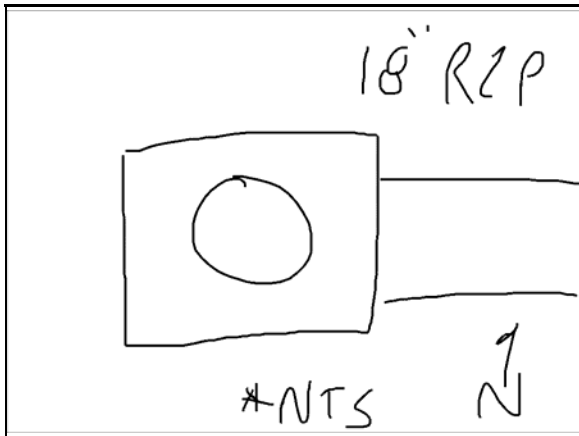
Catch Basin CB-024-310



Location view



Catch basin



Sketch



View inside catch basin



View of outlet



View inside outlet pipe

SDFA 8 - Wooley Rd

Catch Basin CB-024-310



View inside outlet pipe

SDFA 8 - Wooley Rd

Culvert MH-O24-101

Evaluation date/time: 9/15/2014 7:30 PM
Address/location: E Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude:
Longitude:
Property type: Public
Access: Poor
Traffic: Heavy
Ground surface type: Asphalt
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Unknown
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence:

Notes

Located in heavily congested roadway, unable to access to evaluate. Under roadway.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
MH-O24-101_JS-O24-503	Out	Unkn own	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Condition/Loc ation	Under roadway.

Photos

SDFA 8 - Wooley Rd

Culvert MH-O24-103

Evaluation date/time: 9/18/2014 4:12 AM
Address/location: W Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.189861
Longitude: -119.172542
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 30
Width (in.):
Material: CMP
Grade/rim-invert (ft.): 7.5
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Rock
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 2 - Minor Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence: No

Notes

Significant corrosion at pipe invert at manhole. Rest of pipe appears in good condition with coal tar coating.
Connected to arched CMP 30H x 36W.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
Inlet	In	N	18	RCP	6	5	0	None	None	0	Level 1 - No Damage	Level 2 - Good	Condition/Loc ation	Under roadway.
JS-O24-503_MH-O24-102	Unk now n	Unkn own	30	CMP	7.5	5	5	Silt/Rock	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Loc ation	Under roadway.

SDFA 8 - Wooley Rd

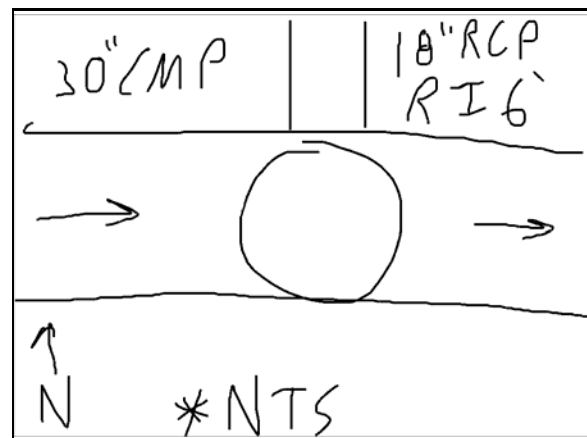
Culvert MH-O24-103

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
MH-O24-102_MH-O24-103	Unknown	Unknown	30	CMP	7.5	5	5	Silt/Rock	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Location	Under roadway.
MH-O24-103_MH-O24-104	Unknown	Unknown	30	CMP	7.5	5	5	Silt/Rock	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Location	Under roadway.

Photos



Location view



Sketch



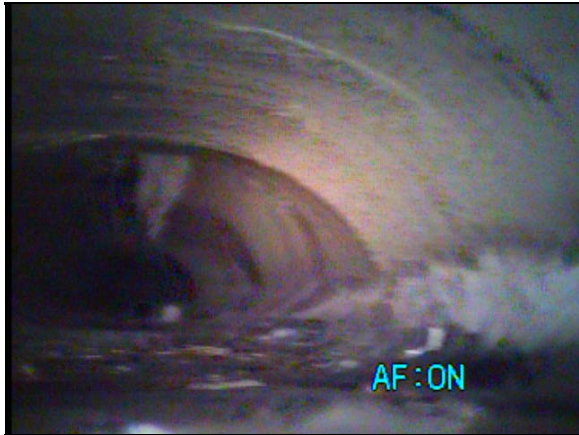
View inside manhole



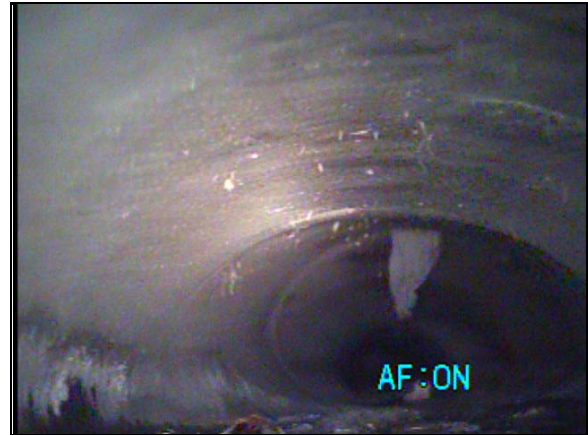
View inside manhole

SDFA 8 - Wooley Rd

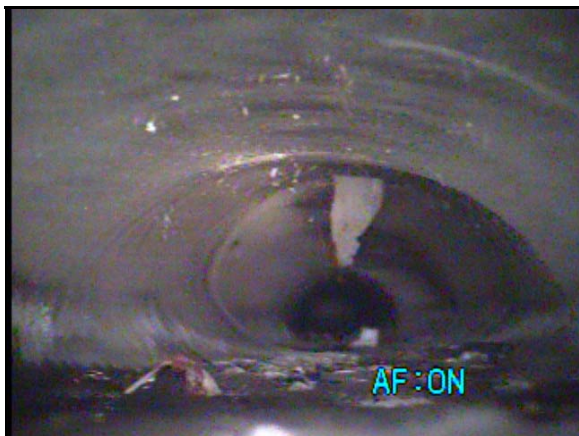
Culvert MH-O24-103



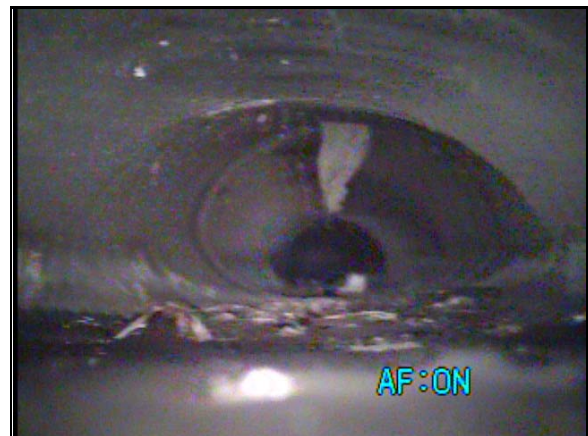
View of W pipe



View of W pipe



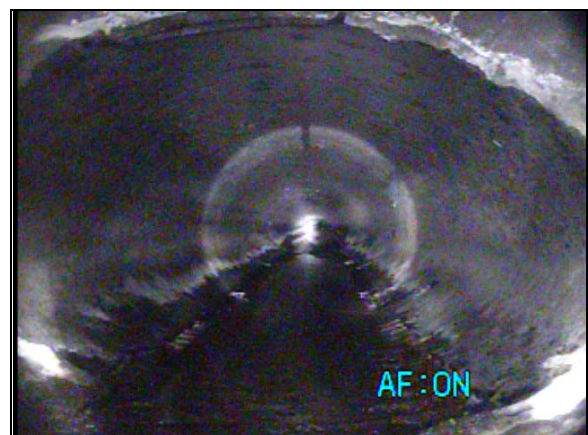
View of W pipe



View of W pipe



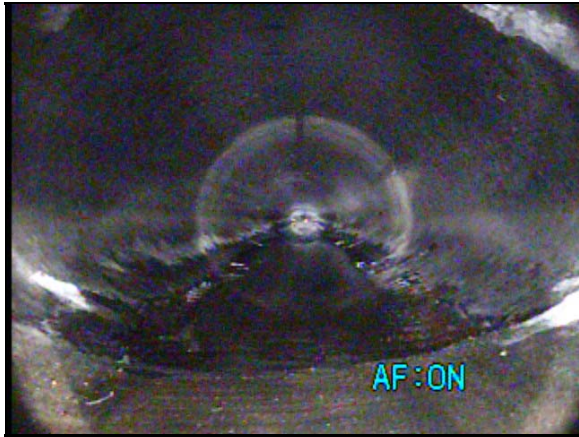
View of W pipe



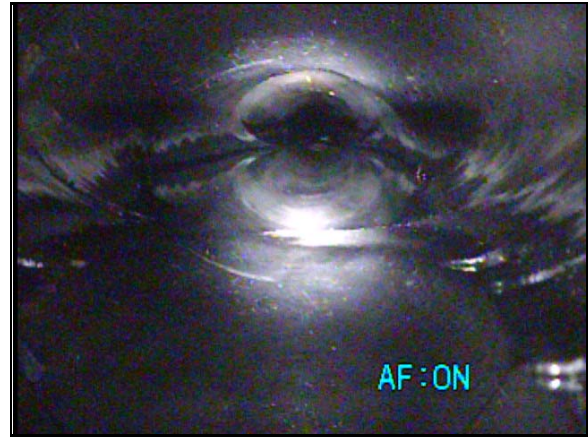
View of E pipe

SDFA 8 - Wooley Rd

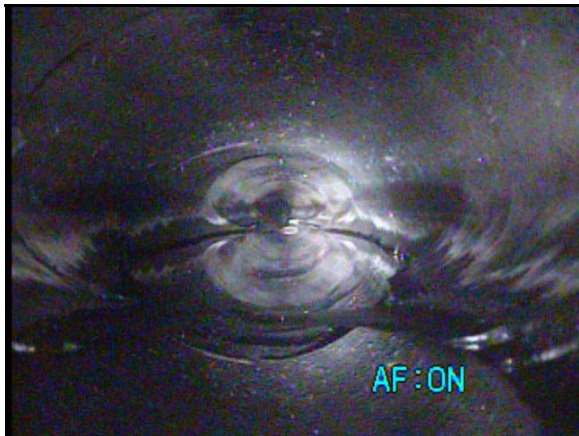
Culvert MH-O24-103



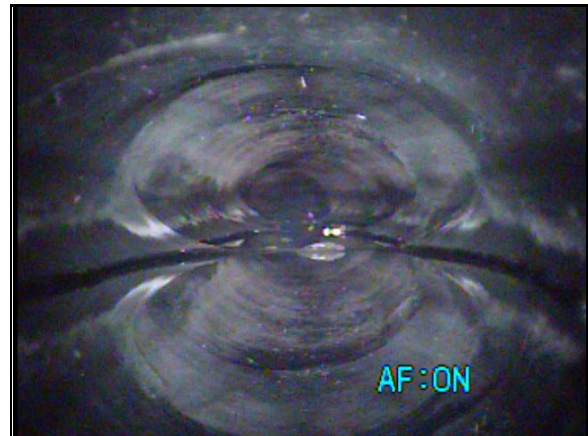
View of E pipe



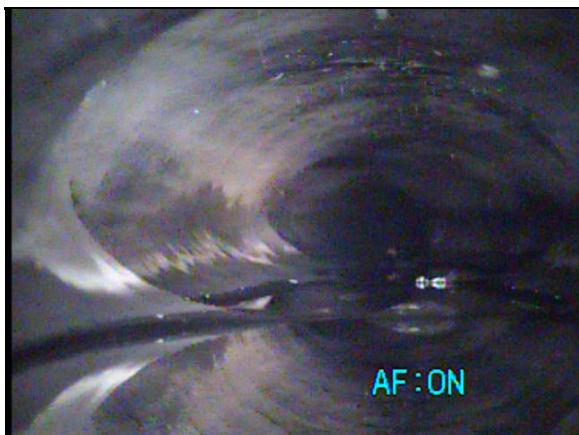
View of E pipe



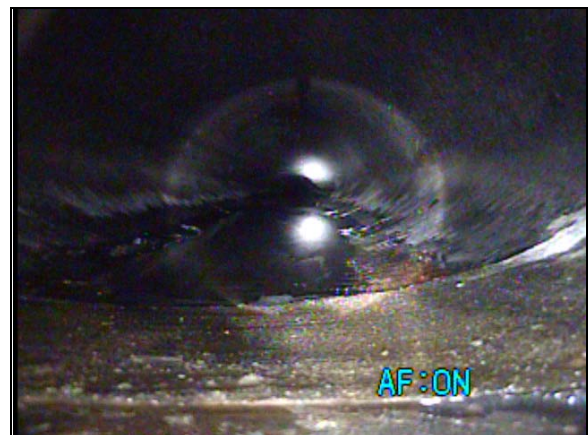
View of E pipe



View of E pipe



View of E pipe



View of E pipe

SDFA 8 - Wooley Rd

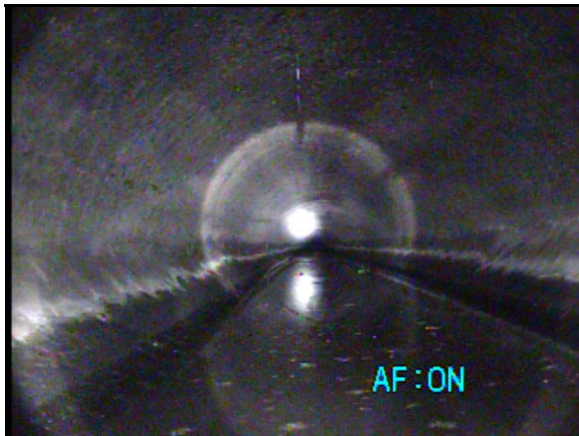
Culvert MH-O24-103



View of inlet



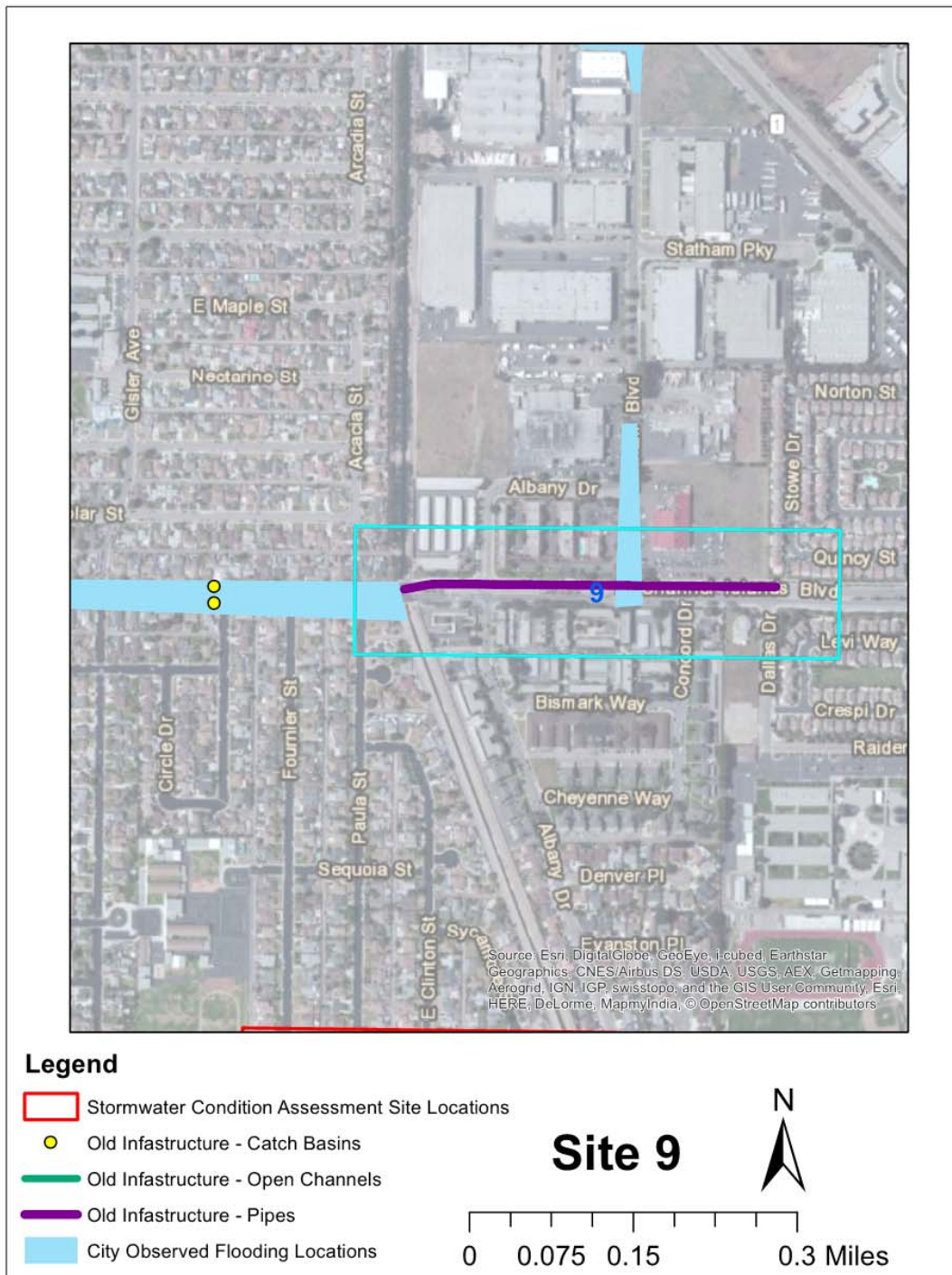
View of inlet



View of inlet

SDFA 9 - Channel Islands Blvd

Area Map



SDFA 9 - Channel Islands Blvd

Culvert MH-P28-106

Evaluation date/time: 9/18/2014 2:46 AM
Address/location: Statham Blvd and Channel Islands Blvd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.173403
Longitude: -119.165633
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 24
Width (in.):
Material: Concrete
Grade/rim-invert (ft.): 8.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
JS-P28-500_MH-P28-106	In	S	Unkn own	RCP	8.3	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
MH-P28-106_MH-P28-105	Unkn own	Unkn own	36H x 36W	RCB	8.3	0	5	Silt	Stain	0	Level 2 - Minor Damage	Level 2 - Good	Condition	Under roadway.

SDFA 9 - Channel Islands Blvd

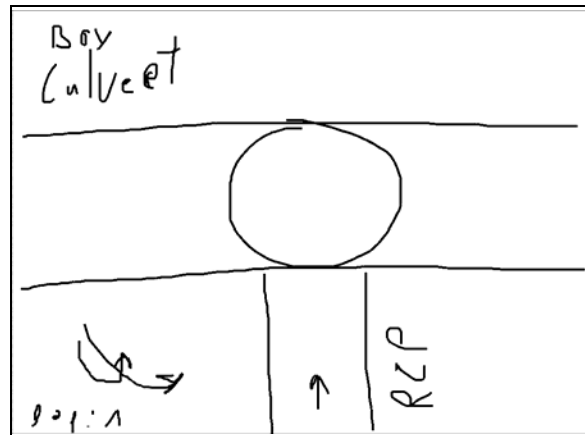
Culvert MH-P28-106

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
MH-P28-107_MH-P28-106	Unknown	Unknown	36H x 36W	RCB	8.3	0	5	Silt	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos



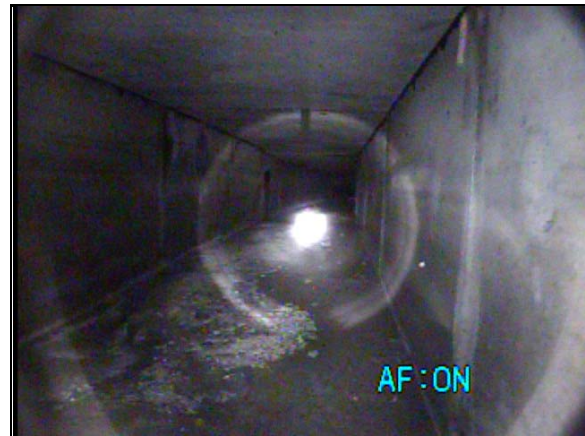
Location view



Sketch



View inside manhole



View of E box culvert

SDFA 9 - Channel Islands Blvd

Culvert MH-P28-106



View of E box culvert



View of E box culvert



View of E box culvert



View of E box culvert



View of E box culvert



View of E box culvert

SDFA 9 - Channel Islands Blvd

Culvert MH-P28-106



View of E box culvert



View of E box culvert



View of E box culvert



View of E box culvert



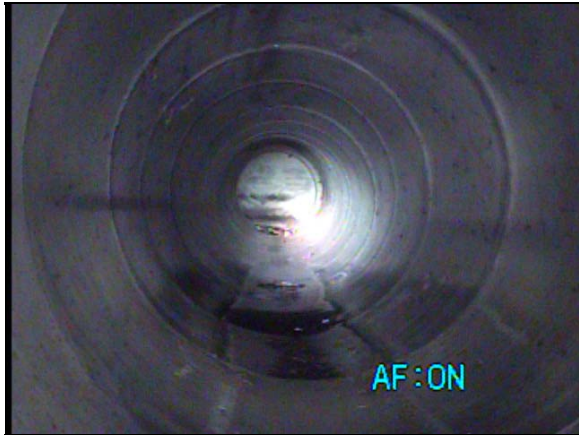
View of inlet pipe



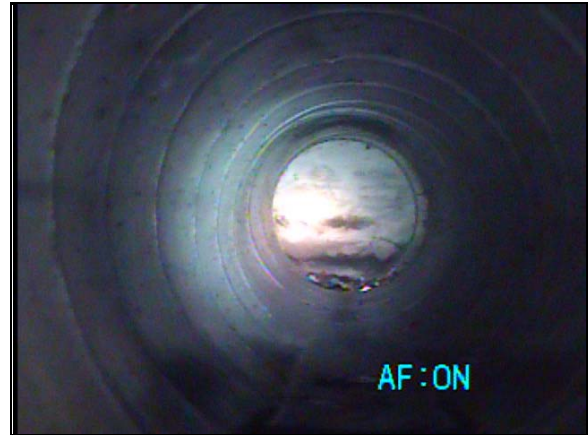
View of inlet pipe

SDFA 9 - Channel Islands Blvd

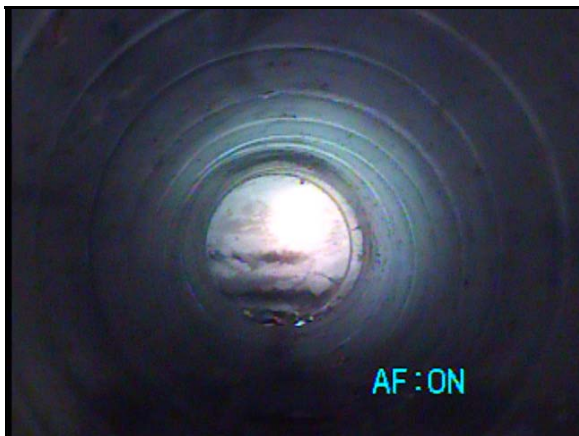
Culvert MH-P28-106



View of inlet pipe



View of inlet pipe



View of inlet pipe



View of W box culvert



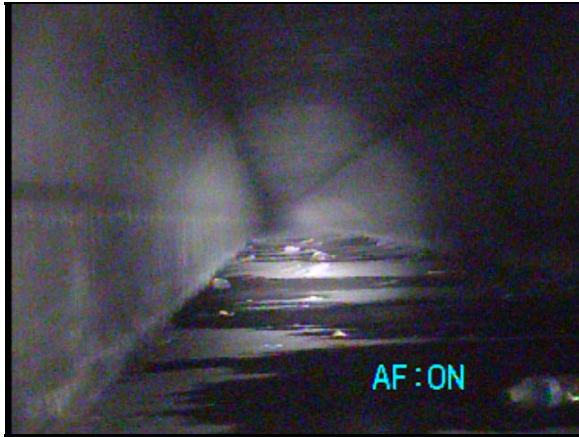
View of W box culvert



View of W box culvert

SDFA 9 - Channel Islands Blvd

Culvert MH-P28-106



View of W box culvert



View of W box culvert



View of W box culvert



View of W box culvert

SDFA 9 - Channel Islands Blvd***Flood Zone FL 9***

Evaluation date/time: 9/12/2014 11:05 AM
 Address/location: Statham Blvd
 Map grid reference:
 Weather: Dry

General Information

Latitude: 34.173059
 Longitude: -119.165397
 Property type: Public
 Access: Good
 Traffic: Heavy
 Ground surface type: Asphalt/Concrete
 Dia./Ht. (in.): N/A
 Width (in.):
 Material: N/A
 Grade/rim-invert (ft.):
 Water level (%): 0
 Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
 Susceptible to ponding/flooding: Yes
 Sediment/debris depth (%):
 Type of sediment/debris: N/A
 Infiltration in structure: N/A
 Obstruction/deflection:
 VANDA Condition Rating: N/A
 Prioritization Rating: Level 3 - Fair
 Prioritization Rationale: Other
 Illegal dumping evidence: No

Notes

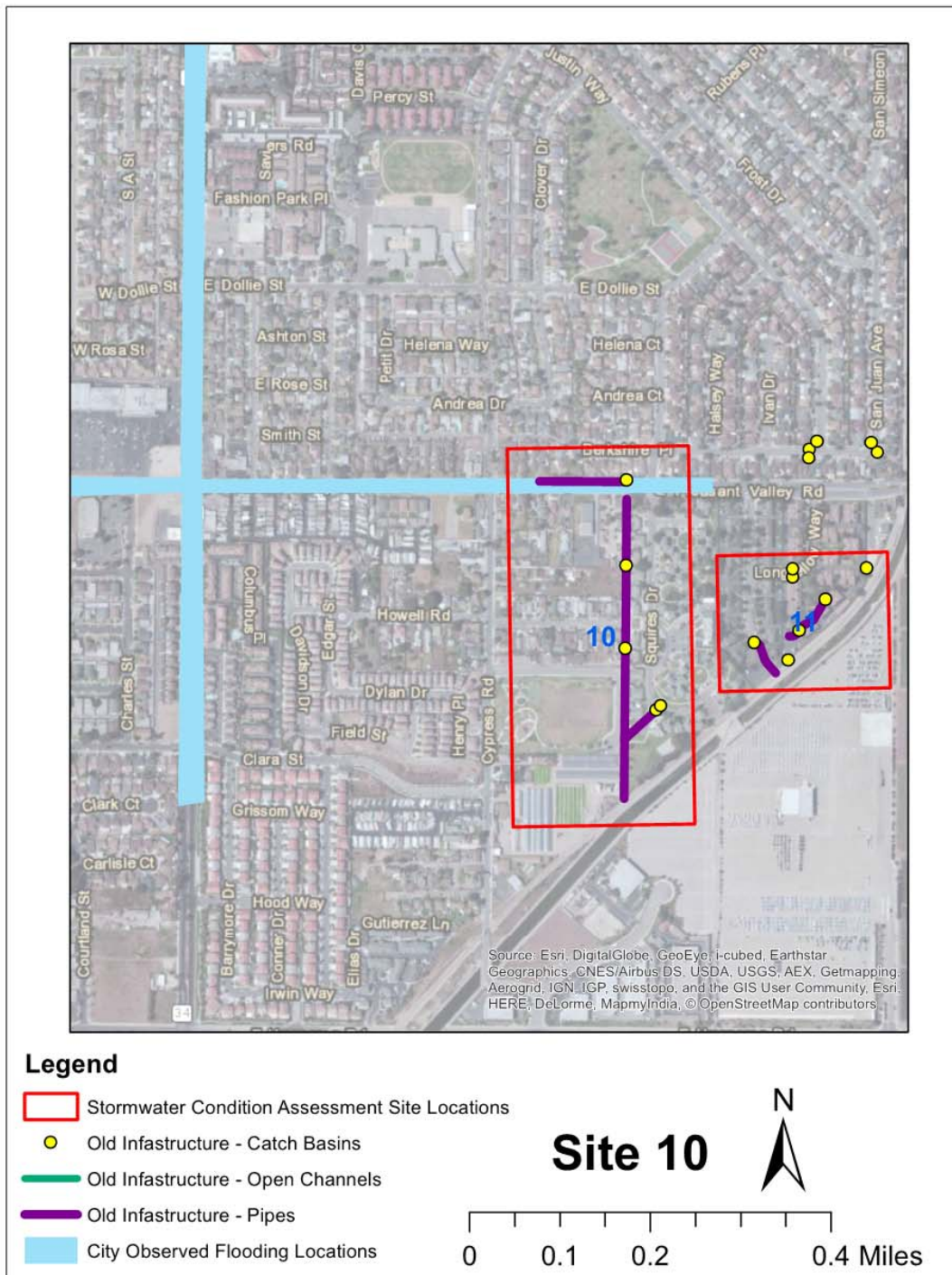
Area has history of flooding. Slight higher grade at manholes. Street appears to go downhill.

Photos

Location View

SDFA 10 - Squires Dr

Area Map



SDFA 10 - Squires Dr

Catch Basin CB-P32-306

Evaluation date/time: 9/15/2014 10:35 AM
Address/location: E Pleasant Valley Rd
Map grid reference:
Weather: Dry

General Information

Latitude:
Longitude:
Property type: Public
Access: Fair
Traffic: Heavy
Ground surface type: Ashpalt/Concrete
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Unknown
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence:

Notes

Located in heavily congested roadway, unable to access to evalaute.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
IN-O32-100_MH-P32-100	Out	Unkn own	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Condition/Loc ation	Under roadway.

Photos

SDFA 10 - Squires Dr

Catch Basin CB-P32-308

Evaluation date/time: 9/15/2014 10:30 AM
Address/location: Howell Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.153619
Longitude: -119.17074
Property type: Public
Access: Good
Traffic: None
Ground surface type: Grass/Dirt
Dia./Ht. (in.): 24
Width (in.): 24
Material: CMP
Grade/rim-invert (ft.): 3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Drains directly into culvert.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P32-308_MH-P33-101	Out	S	30H x 48W	CMP	3	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Coal tar epoxy coating in good condition.
TS-P32-802_CB-P32-308	In	S	30H x 48W	CMP	3	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Coal tar epoxy coating in good condition.

Photos

SDFA 10 - Squires Dr

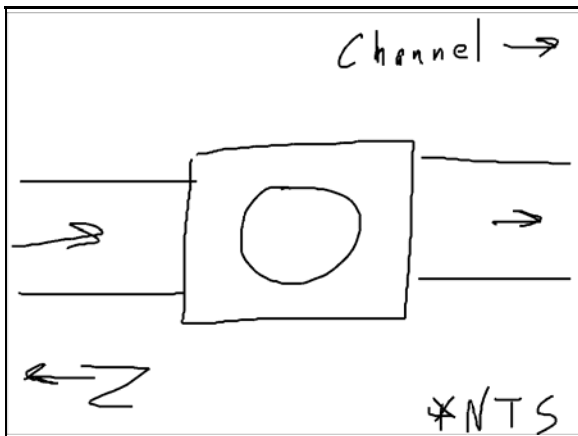
Catch Basin CB-P32-308



Location view



Catch basin



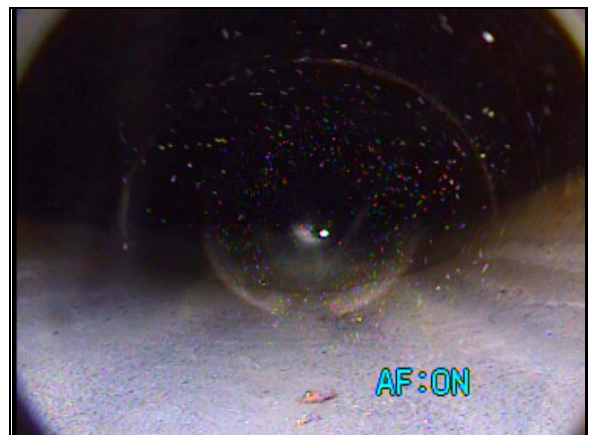
Sketch



View inside outlet pipe



View inside outlet pipe



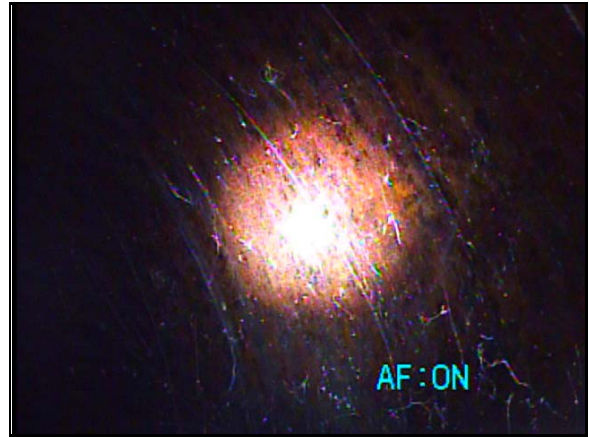
View inside inlet pipe

SDFA 10 - Squires Dr

Catch Basin CB-P32-308



View inside inlet pipe



View of inlet pipe wall

SDFA 10 - Squires Dr

Catch Basin CB-P33-305

Evaluation date/time: 9/15/2014 10:19 AM
Address/location: Howell Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.152524
Longitude: -119.17089
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 24
Width (in.): 24
Material: CMP
Grade/rim-invert (ft.): 3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: Yes
Susceptible to ponding/flooding: No
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Drains directly into MH-P33-101_CB-P33-305 and CB-P33-305_JSM-P33-504. Unable to open at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P33-305_JSM-P33-504	Out	S	30H x 48W	CMP	3	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Coal tar epoxy coating in good condition.
MH-P33-101_CB-P33-305	In	S	30H x 48W	CMP	3	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Coal tar epoxy coating in good condition.

Photos

SDFA 10 - Squires Dr

Catch Basin CB-P33-305



Location view



Catch basin

SDFA 10 - Squires Dr

Catch Basin CB-P33-307

Evaluation date/time: 9/15/2014 9:44 AM
Address/location: Squires Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.151849
Longitude: -119.17031
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3.2
Water level (%): 5
Devices: Debris/Trash Rack

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Trash
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 2 - Minor Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 24-inch CMP CB-P33-308_CB-P33-308. Exposed aggregate on concrete catch basin walls.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P33-308_CB-P33-308	Out	SW	24	CMP	3.2	10	25	Silt/Rock/Trash	None	0	Level 4 - Severe/Si gnificant Damage	Level 4 - Poor	Condition/Location	Under roadway. Moderate to significant corrosion on CMP.

Photos

SDFA 10 - Squires Dr

Catch Basin CB-P33-307



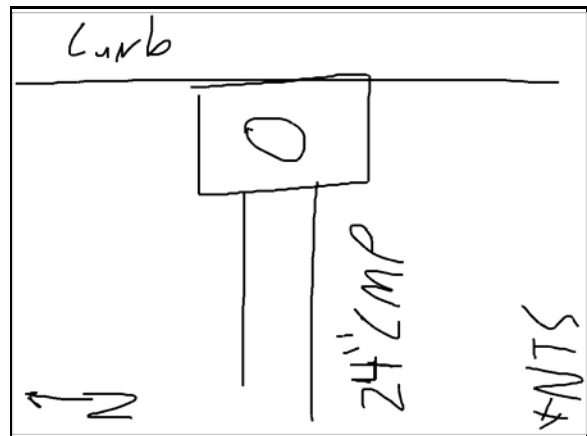
Location view



Catch basin



View inside catch basin



Sketch



Debris rack



View inside catch basin

SDFA 10 - Squires Dr

Catch Basin CB-P33-307



View inside outlet pipe



View inside outlet pipe

SDFA 10 - Squires Dr

Catch Basin CB-P33-308

Evaluation date/time: 9/15/2014 9:28 AM
Address/location: Squires Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.151731
Longitude: -119.170375
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3.3
Water level (%): 5
Devices: Trash/Debris Rack

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Trash
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to MH-P33-101_CB-P33-305 and CB-P33-305_JSM-P33-504. Unable to open.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P33-307_CB-P33-308	In	SW	24	CMP	3.3	5	5	Silt/Trash	None	0	Level 4 - Severe/Si gnificant Damage	Level 4 - Poor	Condition/Loc ation	Under roadway.
CB-P33-308_JSM-P33-504	Out	SW	24	CMP	3.3	5	5	Silt/Trash	None	0	Level 4 - Severe/Si gnificant Damage	Level 4 - Poor	Condition	

Photos

SDFA 10 - Squires Dr

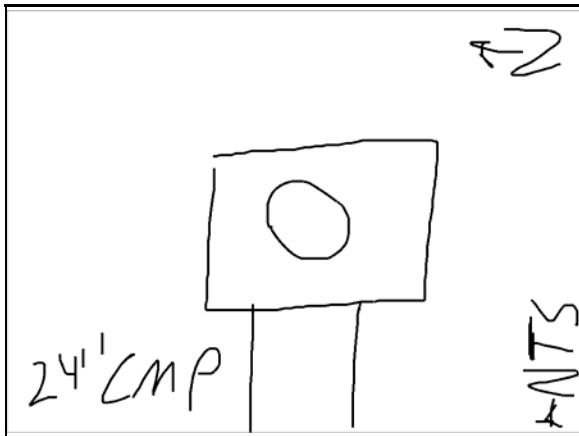
Catch Basin CB-P33-308



Location view



Catch basin



Sketch



View inside catch basin



Trash rack



View inside catch basin

SDFA 10 - Squires Dr

Catch Basin CB-P33-308



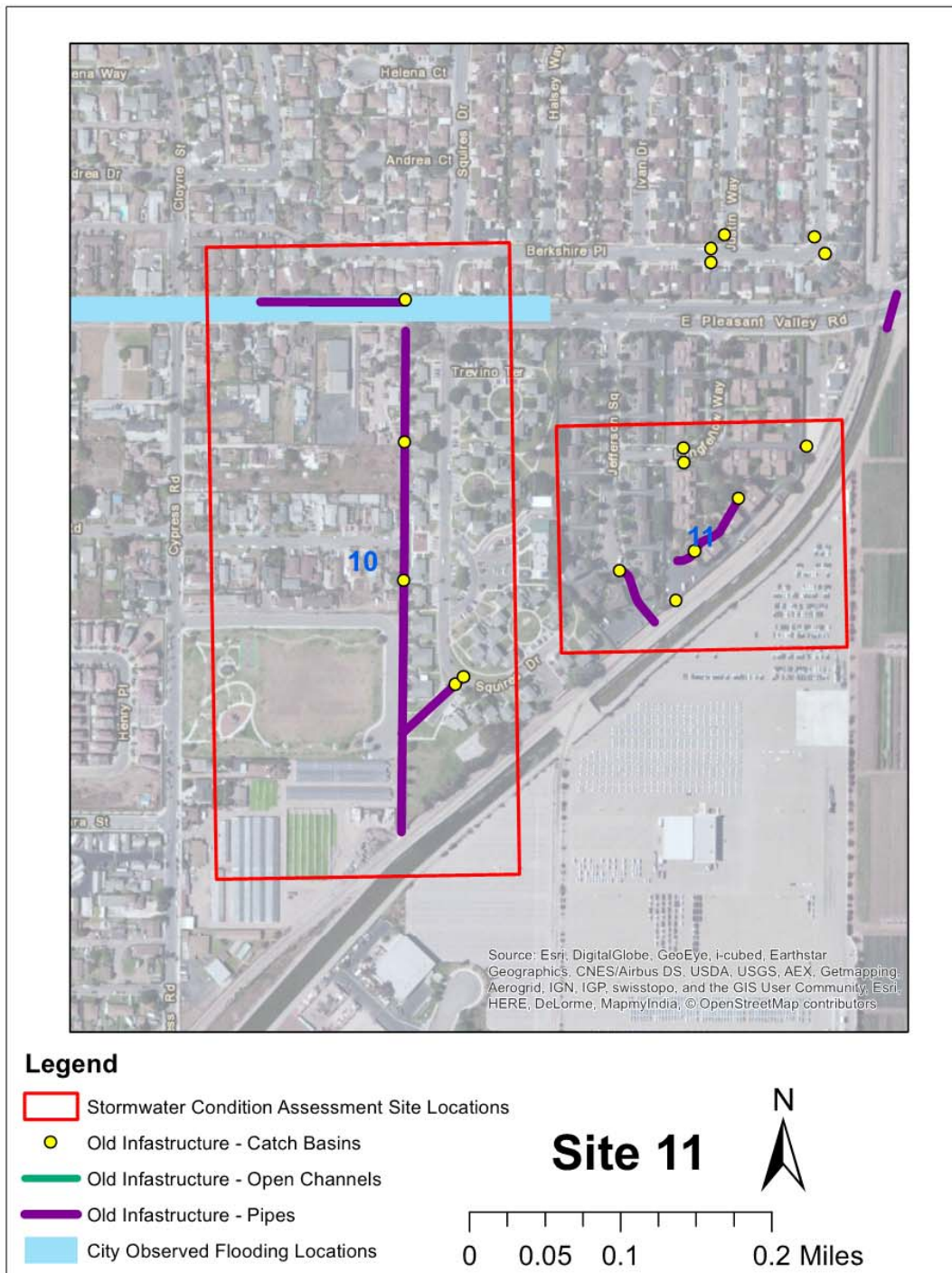
View inside outlet pipe



View inside outlet pipe

SDFA 11 - Jefferson Square

Area Map



SDFA 11 - Jefferson Square

Catch Basin CB-P32-310

Evaluation date/time: 9/15/2014 11:15 AM
Address/location: Longfellow Way
Map grid reference:
Weather: Dry

General Information

Latitude: 34.153662
Longitude: -119.168186
Property type: Public
Access: Good
Traffic: None
Ground surface type: Concrete/Asphalt
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 6.75
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 50
Type of sediment/debris: Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 4 - Poor
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

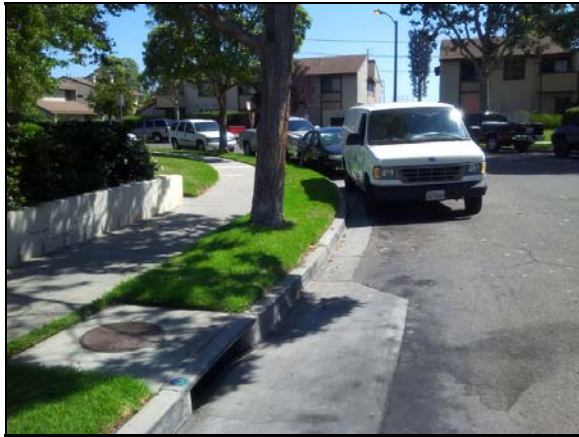
Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P32-310_CB-P32-311	Out	S	18	RCP	6.75	0	5	Trash/Vegetation	Unknown		Unknown	Level 3 - Fair	Condition/Location	Under roadway.
GB-P32-803_CB-P32-310	In	W	18	RCP	6.75	0	5	Trash/Vegetation	Unknown		Unknown	Level 2 - Good	Condition	

Photos

SDFA 11 - Jefferson Square

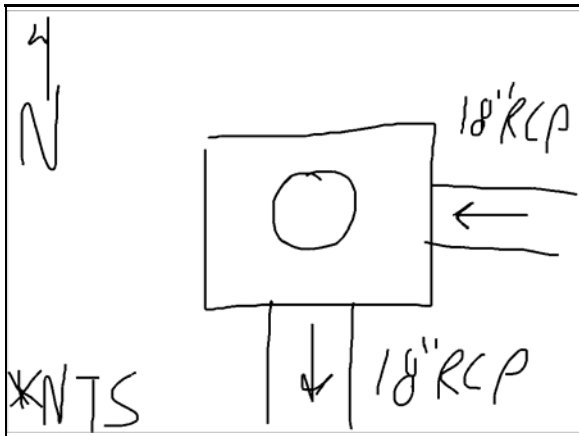
Catch Basin CB-P32-310



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin

SDFA 11 - Jefferson Square

Catch Basin CB-P32-311

Evaluation date/time: 9/15/2014 11:25 AM
Address/location: Longfellow Way
Map grid reference:
Weather: Dry

General Information

Latitude: 34.153597
Longitude: -119.168272
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 7.4
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P32-310_CB-P32-311	In	S	18	RCP	7.4	0	5	Trash/Vegetation	Unknown		Unknown	Level 3 - Fair	Condition/Location	Under roadway.
CB-P32-311_JS-P33-500	Out	SW	24	RCP	7.4	0	5	Trash/Vegetation	Unknown		Unknown	Level 2 - Good	Condition	

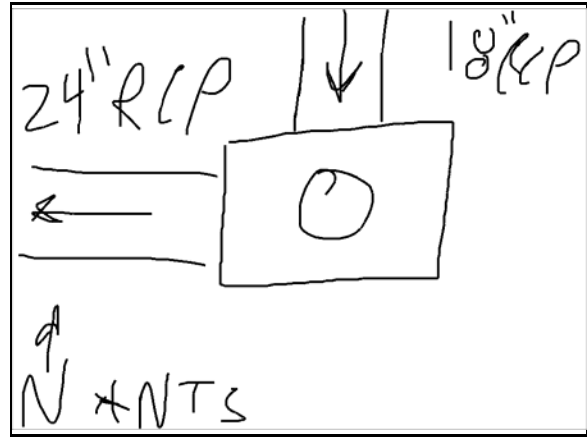
Photos

SDFA 11 - Jefferson Square

Catch Basin CB-P32-311



Catch basin



Sketch



View inside catch basin



View inside catch basin

SDFA 11 - Jefferson Square

Catch Basin CB-P33-300

Evaluation date/time: 9/15/2014 12:05 PM
Address/location: Longfellow Way
Map grid reference:
Weather: Dry

General Information

Latitude: 34.153404
Longitude: -119.167714
Property type: Private
Access: Good
Traffic: None
Ground surface type: Grass/Dirt
Dia./Ht. (in.): 24
Width (in.): 24
Material: Concrete
Grade/rim-invert (ft.): 2.7
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 50
Type of sediment/debris: Vegetation
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 4 - Poor
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment. Bolted down. Significant debris.

Photos



Location view



Catch basin

SDFA 11 - Jefferson Square

Catch Basin CB-P33-303

Evaluation date/time: 9/15/2014 11:45 AM
Address/location: Longfellow Way
Map grid reference:
Weather: Dry

General Information

Latitude: 34.152943
Longitude: -119.168122
Property type: Private
Access: Good
Traffic: None
Ground surface type:
Dia./Ht. (in.): 24
Width (in.): 24
Material: Concrete
Grade/rim-invert (ft.): 2.75
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 25
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P33-300_CB-P33-303	In	SW	8	RCP	2.75	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	
CB-P33-303_JS-P33-500	Out	SW	8	RCP	2.75	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos

SDFA 11 - Jefferson Square

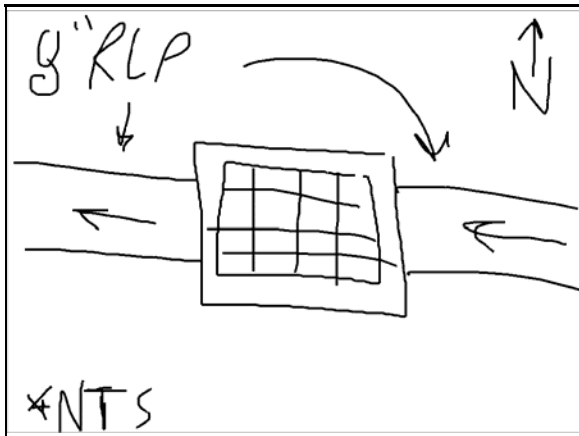
Catch Basin CB-P33-303



Location view



Catch basin



Sketch



View inside catch basin



View inside outlet pipe



View inside inlet pipe

SDFA 11 - Jefferson Square

Catch Basin CB-P33-304

Evaluation date/time: 9/15/2014 11:06 AM
Address/location: Jefferson Sq.
Map grid reference:
Weather: Dry

General Information

Latitude: 34.152675
Longitude: -119.16883
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4
Water level (%):
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P33-304_TS-P33-800	Out	S	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 2 - Good	Condition	

Photos

SDFA 11 - Jefferson Square

Catch Basin CB-P33-304



Location view



Catch basin



View inside catch basin

SDFA 11 - Jefferson Square

Catch Basin CB-P33-306

Evaluation date/time: 9/15/2014 11:37 AM
Address/location: Longfellow Way
Map grid reference:
Weather: Dry

General Information

Latitude: 34.152439
Longitude: -119.168358
Property type: Private
Access: Good
Traffic: None
Ground surface type: Asphalt
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 7
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate. Chained closed.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P33-306_TS-P33-800	Out	SW	Unkn own	Unknow n	7	0		Unknown	Unknow n		Unknown	Level 2 - Good	Condition	
JS-P33-500_CB-P33-306	In	S	Unkn own	Unknow n	7	0		Unknown	Unknow n		Unknown	Level 2 - Good	Condition	

Photos

SDFA 11 - Jefferson Square

Catch Basin CB-P33-306



Location view



Catch basin



View inside catch basin



View inside catch basin

SDFA 11 - Jefferson Square

Culvert CB-P32-309

Evaluation date/time: 9/15/2014 1:52 PM
Address/location: E Pleasant Valley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.153876
Longitude: -119.166663
Property type: Private
Access: Good
Traffic: None
Ground surface type:
Dia./Ht. (in.): 16
Width (in.):
Material: RCP
Grade/rim-invert (ft.): 0
Water level (%): 0
Devices: Debris/Trash Rack

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 25
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 2 - Minor Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Sediment/Other
Illegal dumping evidence: No

Notes

Pipe joint appears to be offset.

Photos

SDFA 11 - Jefferson Square

Culvert CB-P32-309



Culvert



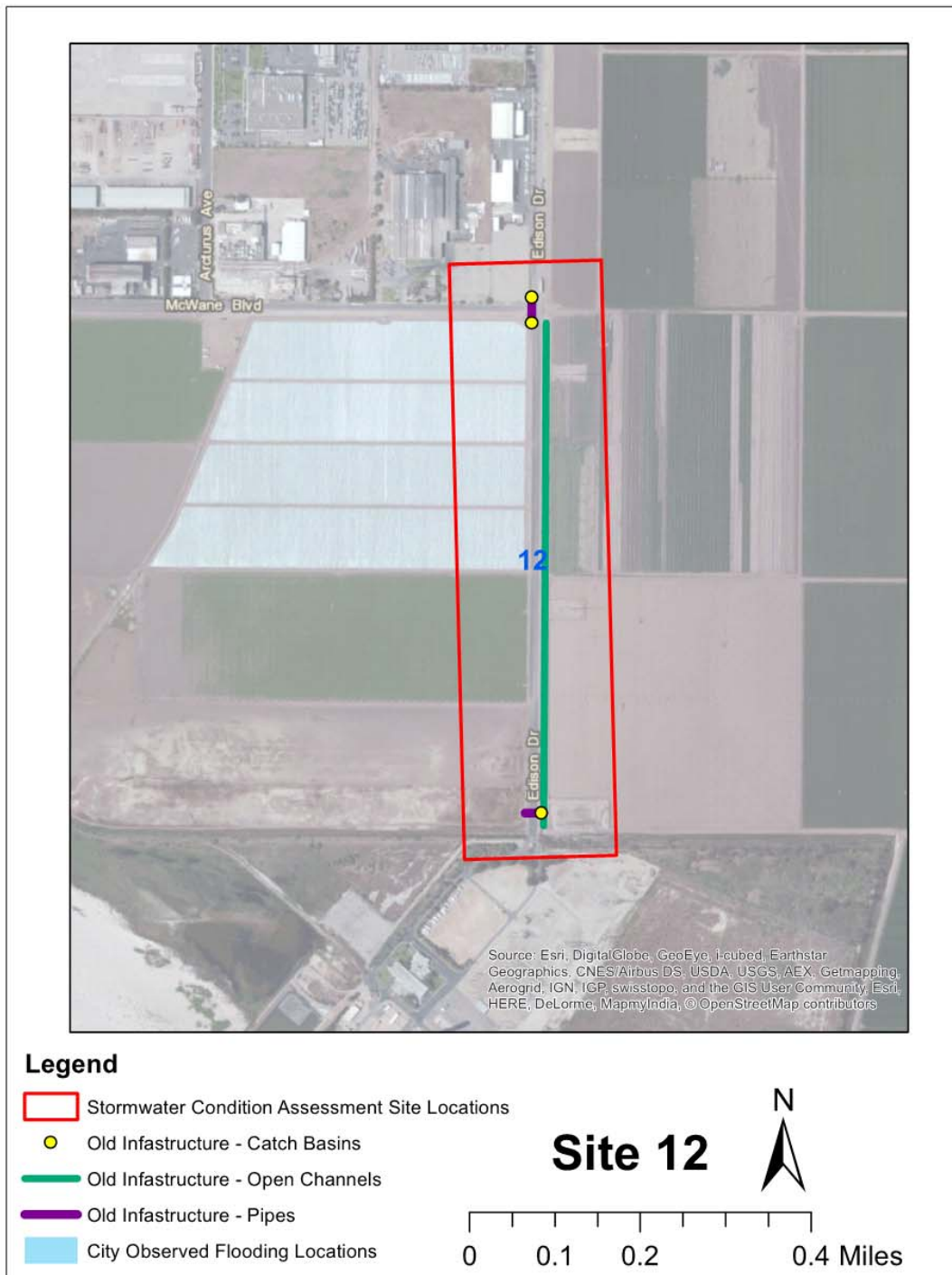
View inside pipe



View inside pipe

SDFA 12 - Edison Dr

Area Map



SDFA 12 - Edison Dr

Catch Basin CB-P36-300

Evaluation date/time: 9/15/2014 2:13 PM
Address/location: Edison Dry
Map grid reference:
Weather: Dry

General Information

Latitude: 34.14039
Longitude: -119.166791
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 114
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.9
Water level (%): 10
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P36-300_CB-P36-301	Out	S	24H x 36W	RCB	2.3	10	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 12 - Edison Dr

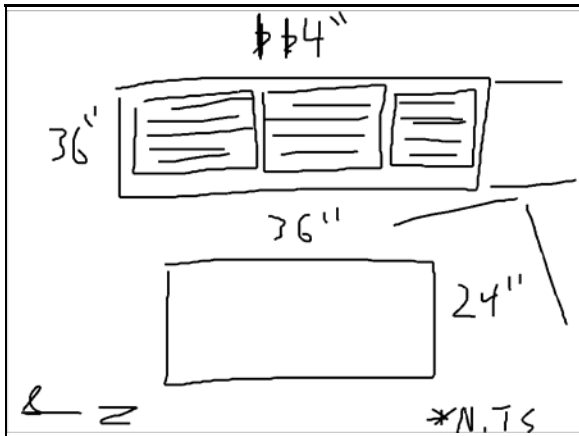
Catch Basin CB-P36-300



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View inside catch basin

SDFA 12 - Edison Dr

Catch Basin CB-P36-300



View inside outlet

SDFA 12 - Edison Dr

Catch Basin CB-P36-301

Evaluation date/time: 9/15/2014 2:31 PM
Address/location: Edison Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.132987
Longitude: -119.16677
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete/
Grass/Dirt
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 10
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 5
Type of sediment/debris: Silt
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to two 24H x 36W box culverts.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P36-300_CB-P36-301	In	S	24H x 36W	RCB	2.3	10	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
CB-P36-301_HW-P36-800	Out	E	24H x 36W	RCB	2.3	40	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 12 - Edison Dr

Catch Basin CB-P36-301



Location view



Catch basin



View inside outlet pipe



View inside inlet pipe



View of outlet



View inside culvert from outlet

SDFA 12 - Edison Dr

Catch Basin CB-P37-302

Evaluation date/time: 9/15/2014 2:45 PM
Address/location: Edison Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.132987
Longitude: -119.16677
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete/
Grass/Dirt
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.7
Water level (%): 10
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to two 18H x 24W CMP. Unable to remove lid, bolted down.

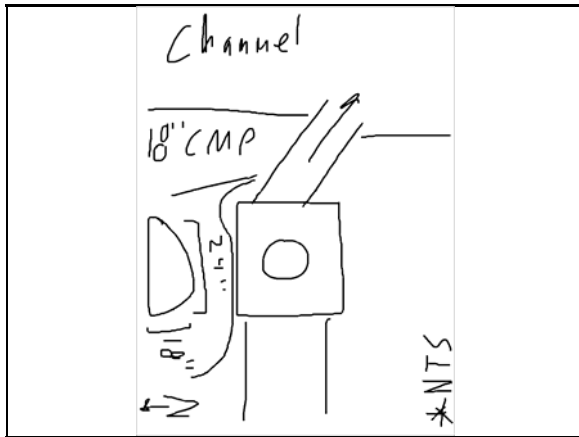
Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P37-300_CB-P37-302	In		18H x 24W	CMP	2.7	0	5	Silt	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Pipe has coal tar epoxy coating and is in good interior condition.
CB-P37-302_RR-P37-800	Out		18H x 24W	CMP	2.7	15	5	Silt	None	10	Level 2 - Minor Damage	Level 2 - Good	Condition	Effluent pipe deflected at outlet and has minor exterior corrosion. Pipe has coal tar epoxy coating and is in good interior condition. Drains to channel.

Photos

SDFA 12 - Edison Dr

Catch Basin CB-P37-302



Sketch



Catch basin



View of outlet from catch basin



View of outlet pipe



View downstream



View inside outlet pipe

SDFA 12 - Edison Dr

Catch Basin CB-P37-302



View inside outlet pipe from outlet



View inside inlet



View of inlet pipe



View of inlet pipe

SDFA 12 - Edison Dr

Channel IN-P36-1000_RR-P37-800

Evaluation date/time: 9/15/2014 2:38 PM
Address/location: Edison Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.139811
Longitude: -119.16662
Property type: Public
Access: Good
Traffic: None
Ground surface type: Grass/Dirt
Dia./Ht. (in.): 72
Width (in.):
Material: Dirt
Grade/rim-invert (ft.): 4
Water level (%): 5
Devices: Headwall

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Photos



View upstream channel



View of channel

SDFA 12 - Edison Dr

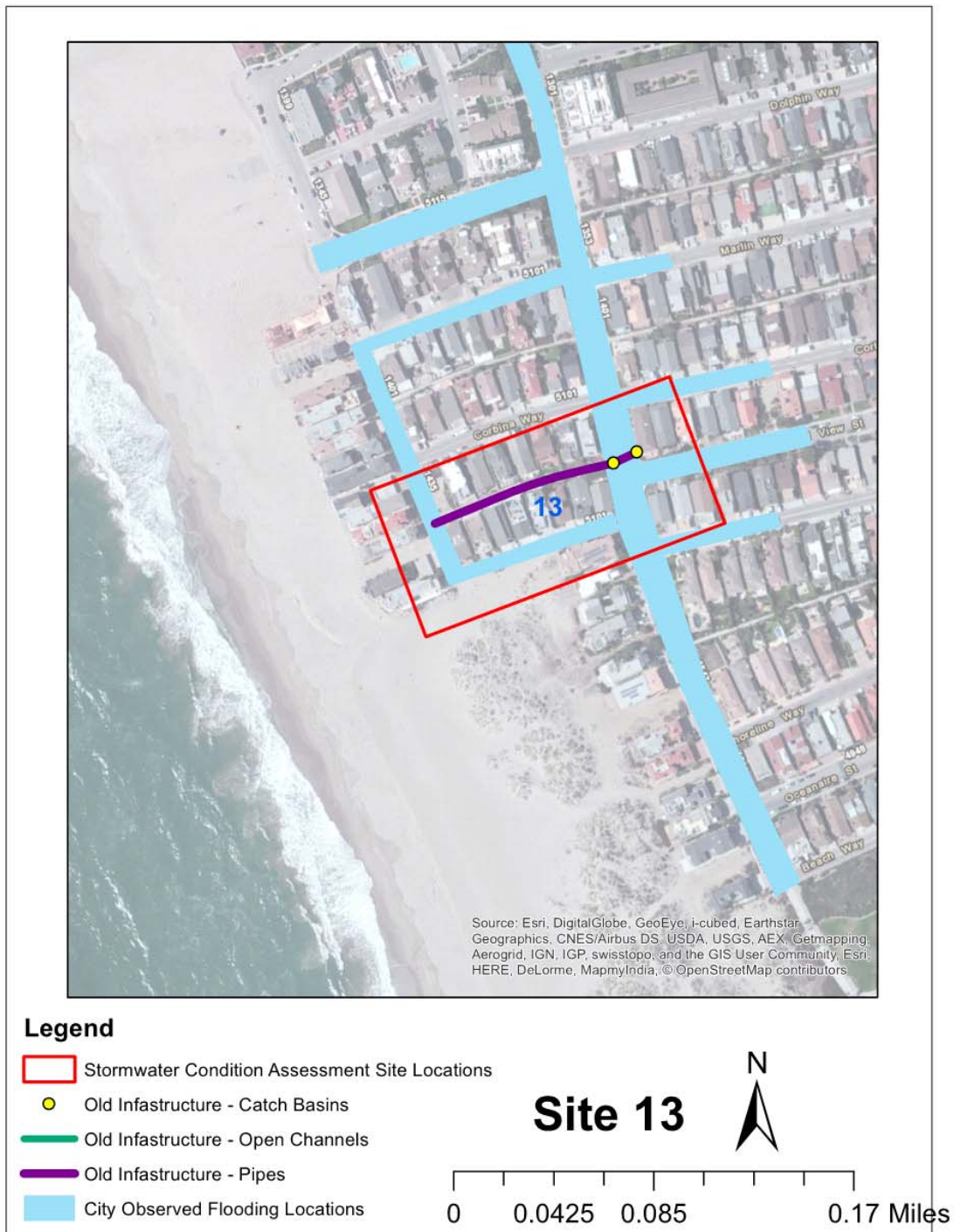
Channel IN-P36-1000_RR-P37-800



View downstream channel

SDFA 13 - Mandalay Bay

Area Map



SDFA 13 - Mandalay Bay

Catch Basin CB-E25-300

Evaluation date/time: 9/13/2014 7:22 PM
Address/location: Mandalay Beach Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.18528
Longitude: -119.240048
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 144
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.2
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to CMP CB-E25-300_CB-E25-301. Stagnant water possibly due to tidal ingress.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-E25-300_CB-E25-301	Out	W	36	CMP	4.2	5	10	Silt/Rock	None	5	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location	Under roadway.

Photos

SDFA 13 - Mandalay Bay

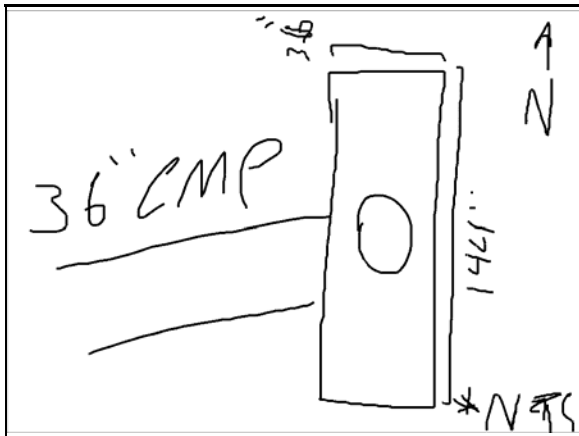
Catch Basin CB-E25-300



Location view



Catch basin



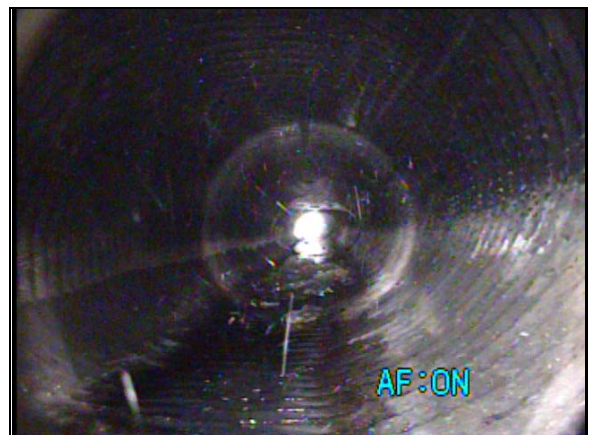
Sketch



View inside catch bath



View of outlet



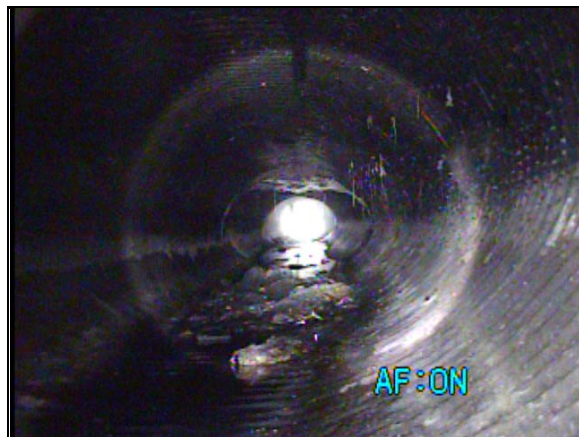
View inside outlet pipe

SDFA 13 - Mandalay Bay

Catch Basin CB-E25-300



View inside outlet pipe



View inside outlet pipe

SDFA 13 - Mandalay Bay

Catch Basin CB-E25-301

Evaluation date/time: 9/14/2014 10:37 AM
Address/location: Mandalay Beach Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.185215
Longitude: -119.240112
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 144
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.7
Water level (%): 10
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition/Other
Illegal dumping evidence: No

Notes

Connected to 18-inch RCP CB-R28-303_JS-R28-501. May be affected by tidal ingress and egress.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-E25-300_CB-E25-301	In	W	36	CMP	4.7	10	10	Silt/Rock	None	0	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Loc ation	Under roadway.
CB-E25-301_CB-E25-302	Out	W	48	CMP	4.7	5	5	Silt/Rock	None	0	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Loc ation	Under residences.

Photos

SDFA 13 - Mandalay Bay

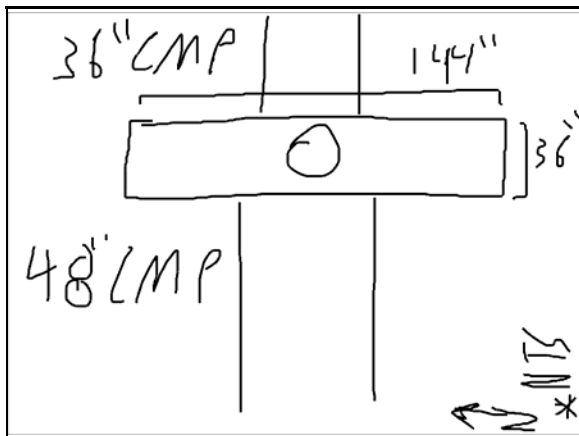
Catch Basin CB-E25-301



Location view



Catch basin



Sketch



View inside catch basin



View of outlet



View inside outlet pipe

SDFA 13 - Mandalay Bay

Catch Basin CB-E25-301



View inside outlet pipe



View inside outlet pipe



View of inlet



View inside inlet pipe

SDFA 13 - Mandalay Bay

Flood Zone FL 13

Evaluation date/time: 9/14/2014 10:39 AM
Address/location: Mandalay Beach Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.173435
Longitude: -119.15132
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Sand
Dia./Ht. (in.): N/A
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Other
Illegal dumping evidence: No

Notes

Flooding may be due to tidal influence. Area appears to slope towards ocean.

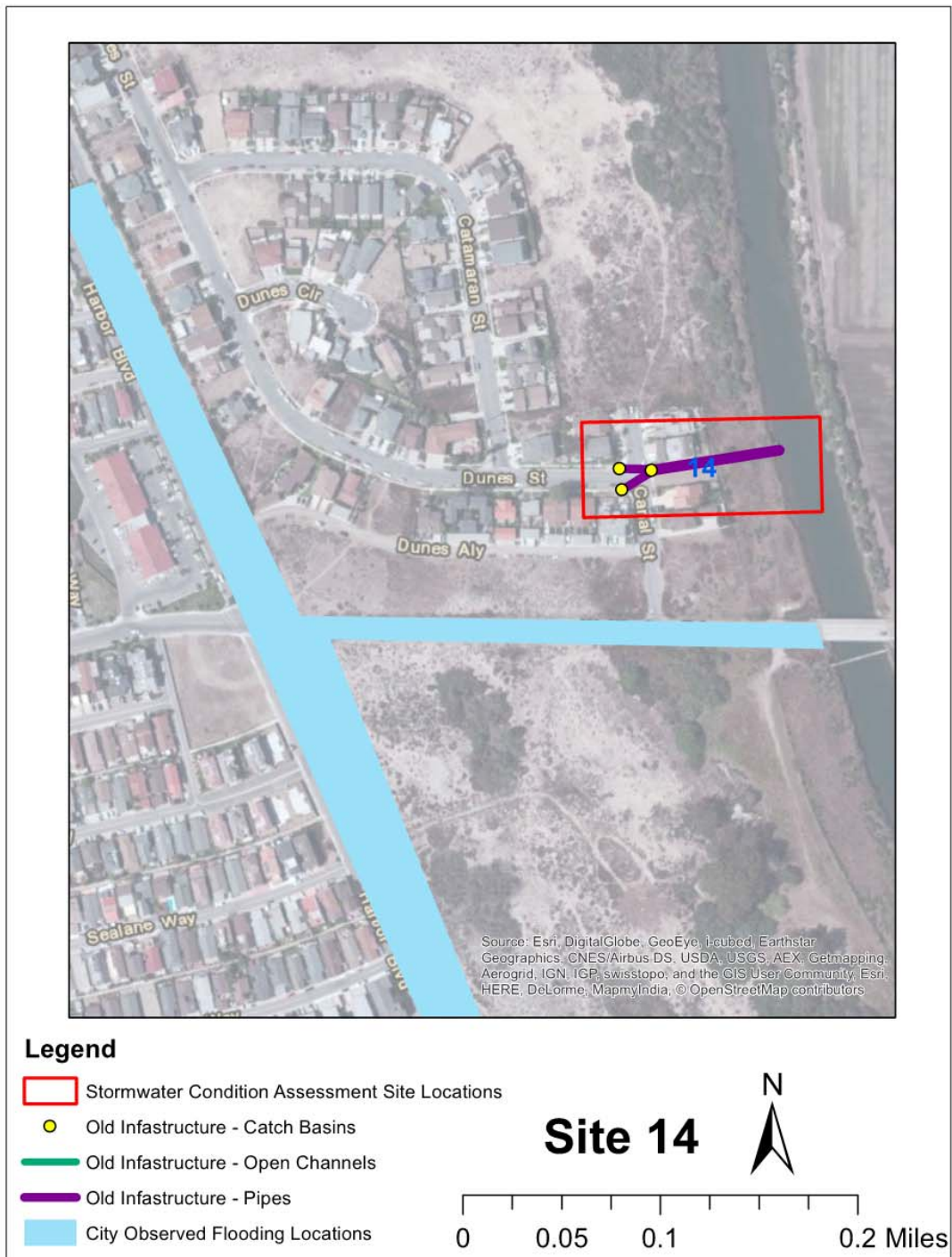
Photos



Location View

SDFA 14 - Canal St

Area Map



SDFA 14 - Canal St

Catch Basin CB-F23-300

Evaluation date/time: 9/13/2014 6:20 PM
Address/location: Canal St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.191309
Longitude: -119.23625
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 136
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.9
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 36-inch RCP CB-F23-300_CB-F23-301.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-F23-300_CB-F23-301	Out	E	36	RCP	4.9	5	5	Silt/Trash	Stain	0	Level 1 - No Damage	Level 2 - Good	Condition/Location	Under roadway.

Photos

SDFA 14 - Canal St

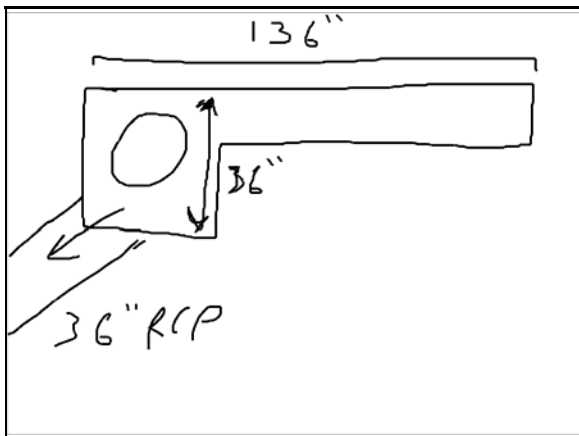
Catch Basin CB-F23-300



Location view



Catch basin



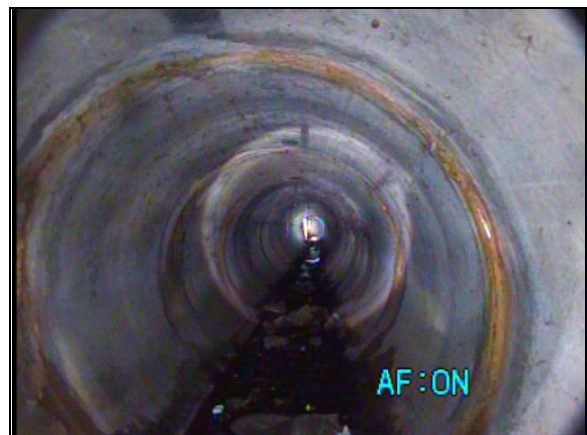
Sketch



View inside catch basin



View inside of outlet



View inside outlet pipe

SDFA 14 - Canal St

Catch Basin CB-F23-301

Evaluation date/time: 9/13/2014 6:34 PM
Address/location: Canal St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.191513
Longitude: -119.235842
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 94
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 5.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 36-inch RCP CB-F23-300_CB-F23-301, 24-inch RCP CB-F23-302_CB-F23-301, and two 48-inch RCP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-F23-300_CB-F23-301	In	E	36	RCP	5.2	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
CB-F23-302_CB-F23-301	In	E	24	RCP	5.2	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

SDFA 14 - Canal St

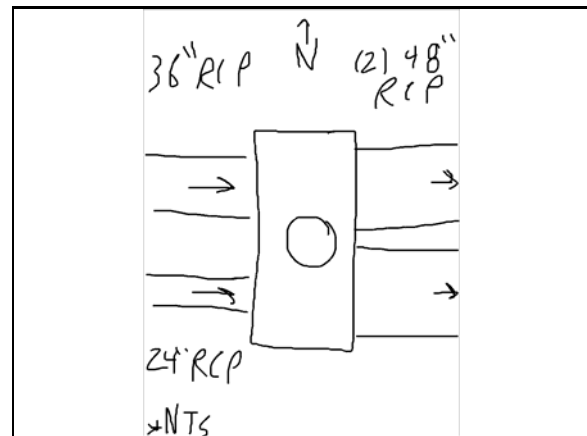
Catch Basin CB-F23-301

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
N Outlet	Out	E	48	RCP	5.3	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	
S Outlet	Out	E	48	RCP	5.3	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos



Location view



Sketch



View of 48-inch outlet



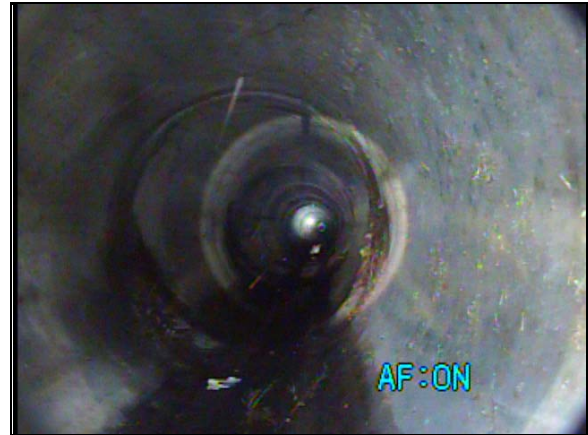
View inside northern outlet

SDFA 14 - Canal St

Catch Basin CB-F23-301



View inside northern outlet



View inside northern outlet



View inside southern outlet



View inside southern outlet



View of 24-inch inlet



View of 36-inch inlet

SDFA 14 - Canal St

Catch Basin CB-F23-302

Evaluation date/time: 9/13/2014 5:48 PM
Address/location: Canal St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.191245
Longitude: -119.233568
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 104
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 24-inch RCP CB-F23-302_CB-F23-301.

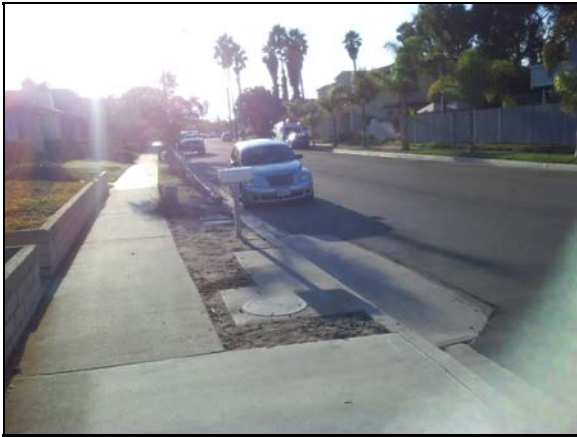
Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-F23-302_CB-F23-301	Out	NE	24	RCP	4.3	0	5	Silt/Vegetation	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 14 - Canal St

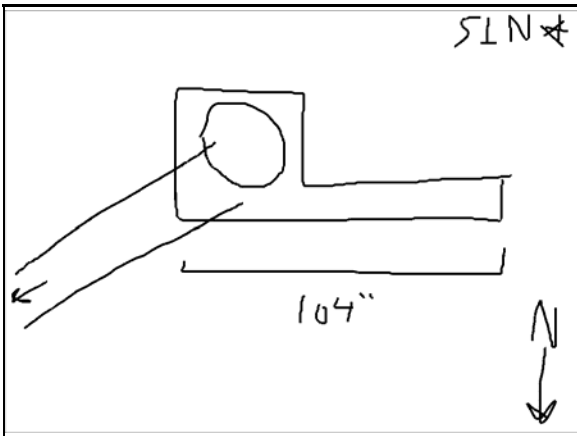
Catch Basin CB-F23-302



Location view



Catch basin



Sketch



View inside catch basin



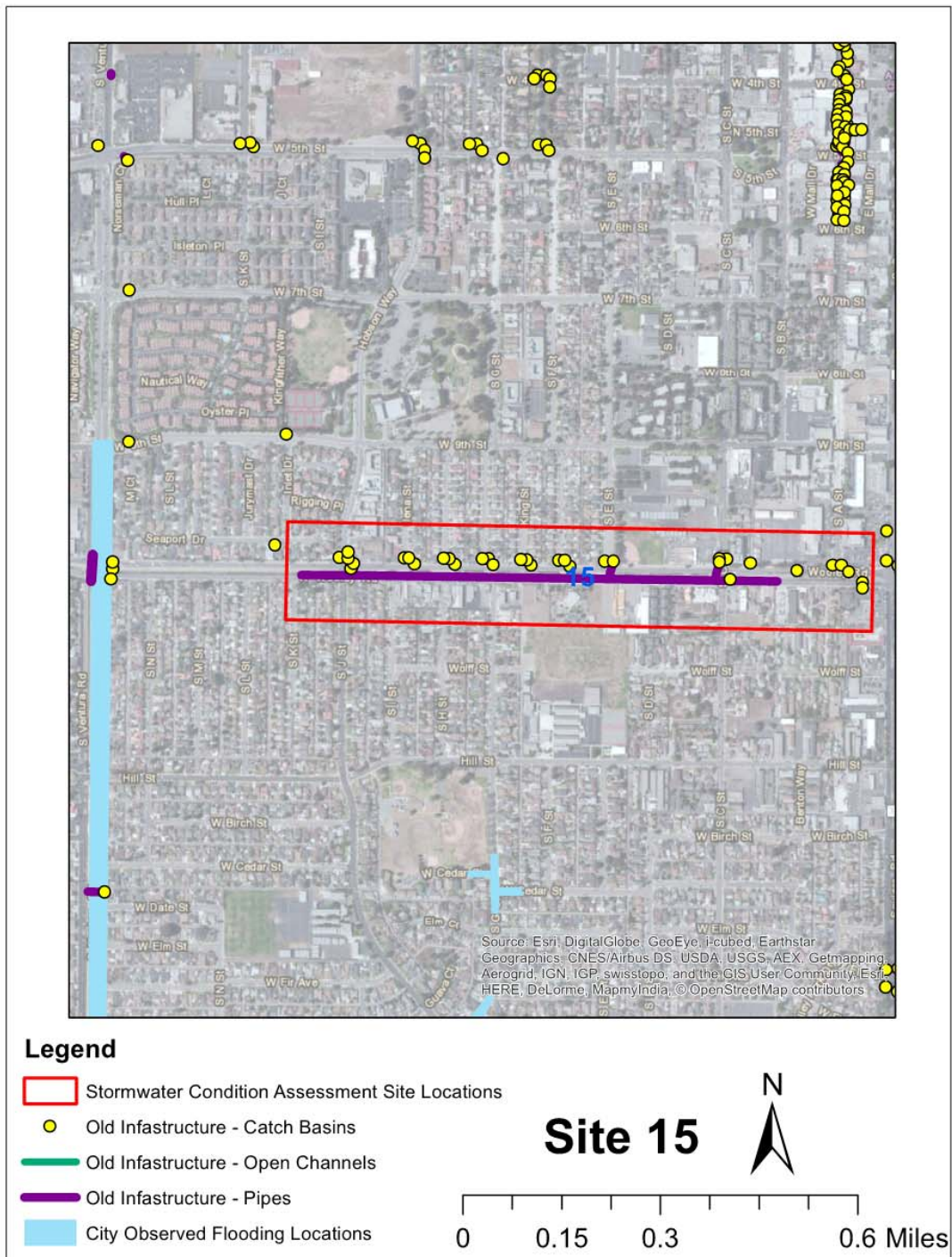
View inside catch basin



View inside outlet pipe

SDFA 15 - Wooley Rd

Area Map



SDFA 15 - Wooley Rd

Catch Basin CB-M24-300

Evaluation date/time: 9/16/2014 12:07 PM
Address/location: J St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190451
Longitude: -119.189429
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 117
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.2
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition/Other
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M24-300_CB-M24-302	Out	S	12	RCP	4.2	0	5	Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos

SDFA 15 - Wooley Rd

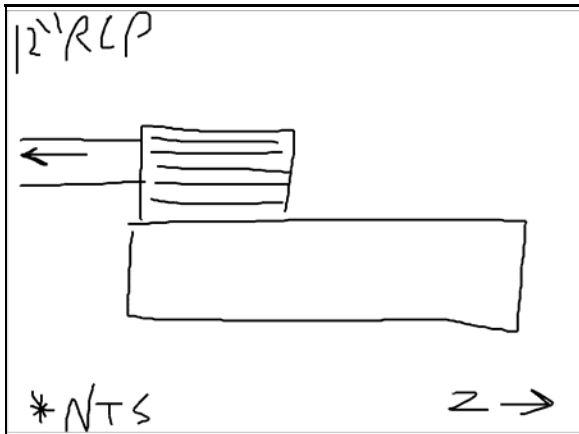
Catch Basin CB-M24-300



Location view



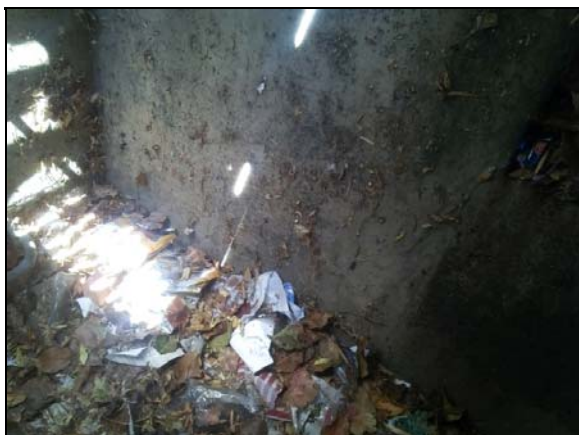
Catch basin



Sketch



View inside catch basin



View over catch basin



View inside catch basin

SDFA 15 - Wooley Rd

Catch Basin CB-M24-300



View of outlet

SDFA 15 - Wooley Rd

Catch Basin CB-M24-301

Evaluation date/time: 9/16/2014 12:47 PM
Address/location: J St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190365
Longitude: -119.189644
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 117
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.2
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10.0
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M24-301_CB-M24-302	Out	E	18	RCP	4.2	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway. Water ponding at low point.

Photos

SDFA 15 - Wooley Rd

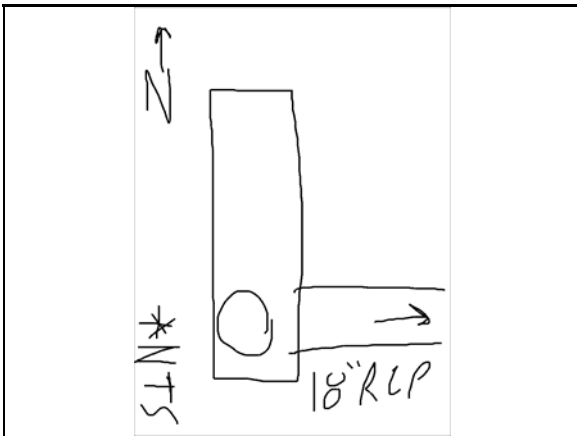
Catch Basin CB-M24-301



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View of outlet

SDFA 15 - Wooley Rd

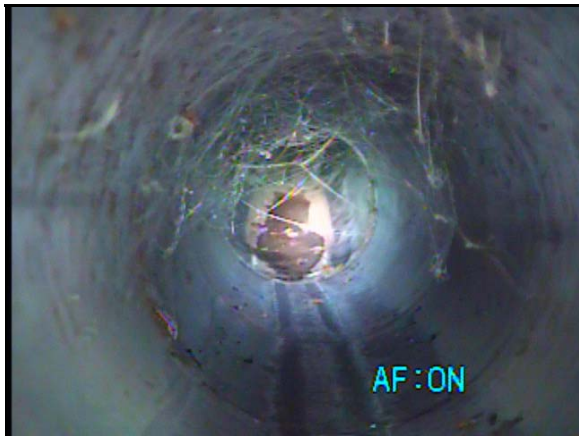
Catch Basin CB-M24-301



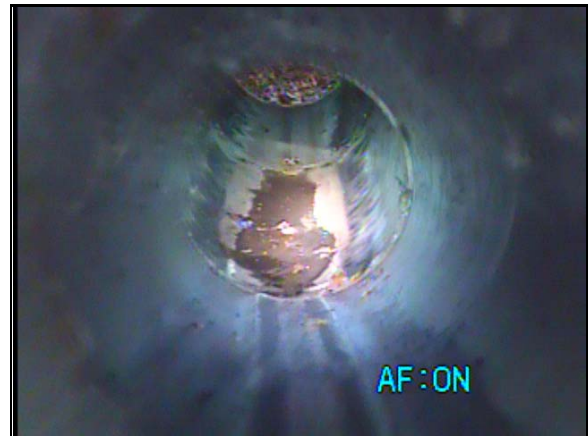
View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe

SDFA 15 - Wooley Rd

Catch Basin CB-M24-302

Evaluation date/time: 9/16/2014 12:17 PM
Address/location: J St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190376
Longitude: -119.189365
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 6.2
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Unknown
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition/Location
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M24-300_CB-M24-302	In	S	12	RCP		0	5	Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	
CB-M24-301_CB-M24-302	In	E	18	RCP	6.2	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway. Water ponding at low point.

SDFA 15 - Wooley Rd

Catch Basin CB-M24-302

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M24-302_JS-M24-500	Out	S	Unknown	Unknown	6	0		Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Location	Under roadway.

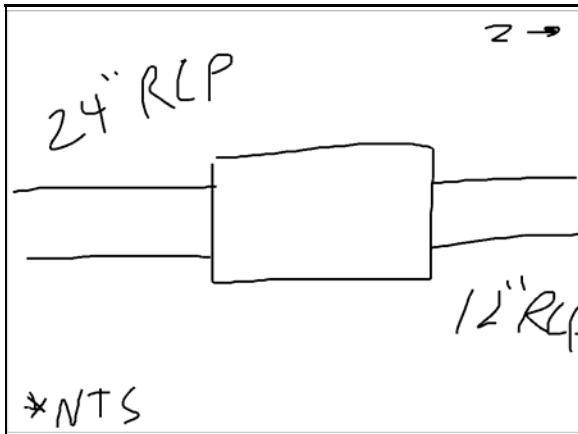
Photos



Location view



Catch basin



Sketch



View inside catch basin

SDFA 15 - Wooley Rd

Catch Basin CB-M24-304

Evaluation date/time: 9/16/2014 11:58 AM
Address/location: Ilena St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190376
Longitude: -119.188228
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.):
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: N/A
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Absence
Illegal dumping evidence: No

Notes

Does not exist.

Photos



Location view



Location view

SDFA 15 - Wooley Rd

Catch Basin CB-M24-304



Location view

SDFA 15 - Wooley Rd

Catch Basin CB-M24-306

Evaluation date/time: 9/16/2014 11:51 AM
Address/location: Ilena St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190537
Longitude: -119.187369
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt
Dia./Ht. (in.): N/A
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: N/A
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Absence
Illegal dumping evidence: No

Notes

Does not exist.

Photos



Location view



Location view

SDFA 15 - Wooley Rd

Catch Basin CB-M24-306



Location view

SDFA 15 - Wooley Rd

Catch Basin CB-M24-308

Evaluation date/time: 9/16/2014 10:39 AM
Address/location: S G St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190344
Longitude: -119.186511
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 120
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 18-inch RCP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M24-307_CB-M24-308	In	E	18	RCP	5.25	0	5	Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
CB-M24-308_CB-M24-316	Out	S	18	RCP	5.25	0	5	Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos

SDFA 15 - Wooley Rd

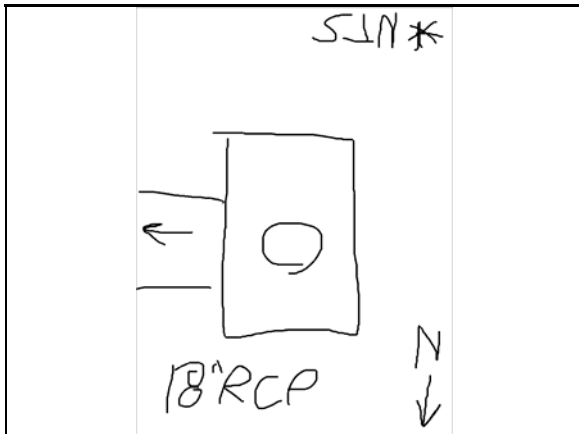
Catch Basin CB-M24-308



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View of outlet

SDFA 15 - Wooley Rd

Catch Basin CB-M24-308



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View of inlet



View inside inlet pipe

SDFA 15 - Wooley Rd

Catch Basin CB-M24-310

Evaluation date/time: 9/16/2014 10:30 AM
Address/location: King St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.19044
Longitude: -119.185545
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.):
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: N/A
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Absence
Illegal dumping evidence: No

Notes

Does not exist.

Photos



Location view



Location view

SDFA 15 - Wooley Rd

Catch Basin CB-M24-312

Evaluation date/time: 9/16/2014 10:25 AM
Address/location: S F St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190301
Longitude: -119.184687
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.):
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: N/A
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Absence
Illegal dumping evidence: No

Notes

Does not exist.

Photos



Location view



Location view

SDFA 15 - Wooley Rd

Catch Basin CB-M24-313

Evaluation date/time: 9/16/2014 12:29 PM
Address/location: W Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190311
Longitude: -119.189322
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.8
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

There is a two foot long hole in the connecting 18-inch RCP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M24-313_JS-M24-502	Out	S	18	RCP	2.8	0	0	None	None	0	Level 4 - Severe/Si gnificant Damage	Level 5 - Immediate Attention	Condition/Loc ation	Under roadway. Hole in pipe

Photos

SDFA 15 - Wooley Rd

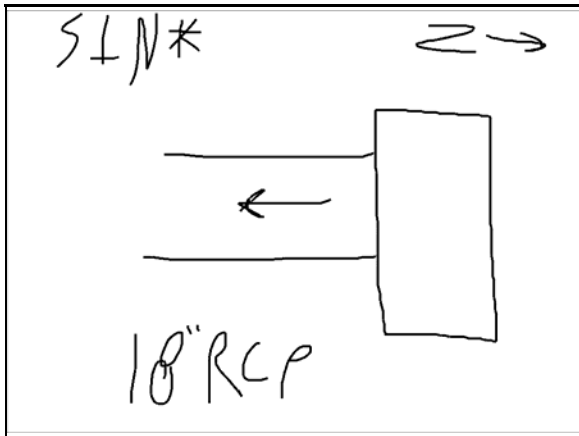
Catch Basin CB-M24-313



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View of outlet

SDFA 15 - Wooley Rd

Catch Basin CB-M24-313



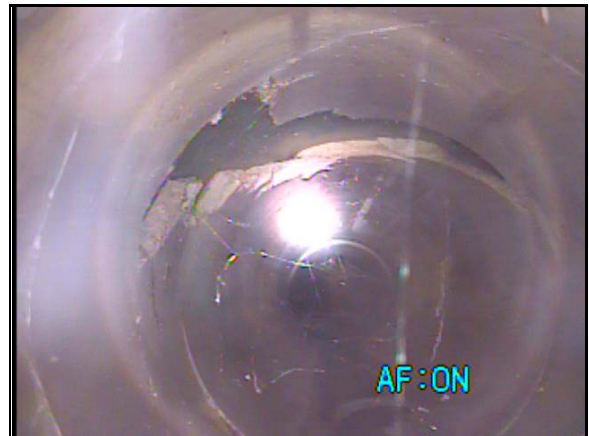
View of outlet



View inside outlet pipe



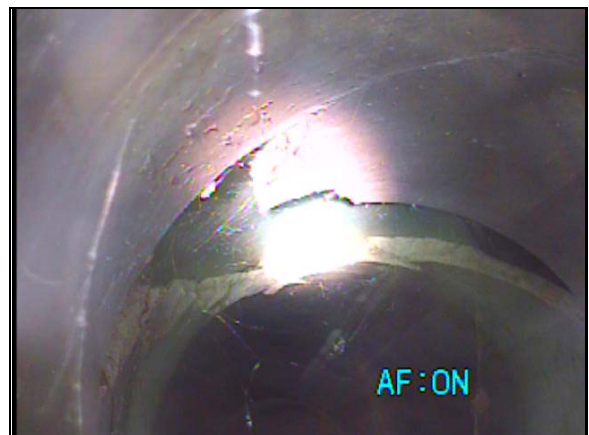
View inside outlet pipe



Hole in pipe.



View inside outlet pipe



Hole in pipe.

SDFA 15 - Wooley Rd

Catch Basin CB-M24-316

Evaluation date/time: 9/16/2014 11:16 AM
Address/location: W Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190204
Longitude: -119.186318
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt
Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 6.2
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10.0
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Other
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M24-308_CB-M24-316	In	SE	24	RCP	5.6	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	
CB-M24-316_JS-M24-505	Out	S	24	RCP	6.2	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 15 - Wooley Rd

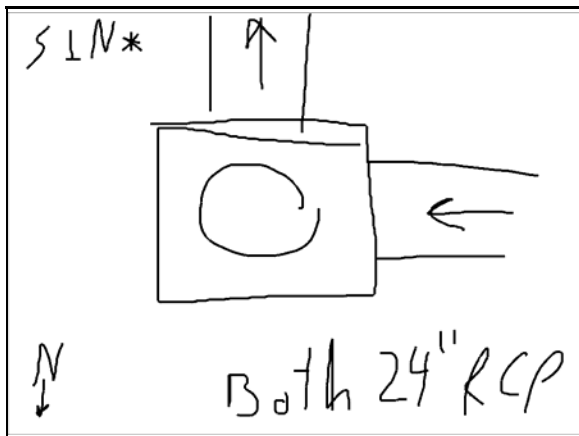
Catch Basin CB-M24-316



Location view



Catch basin



Sketch



View inside catch basin



View of inlet and outlet



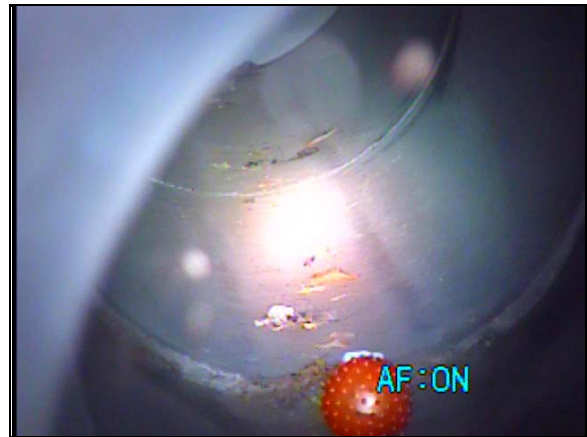
View inside outlet pipe

SDFA 15 - Wooley Rd

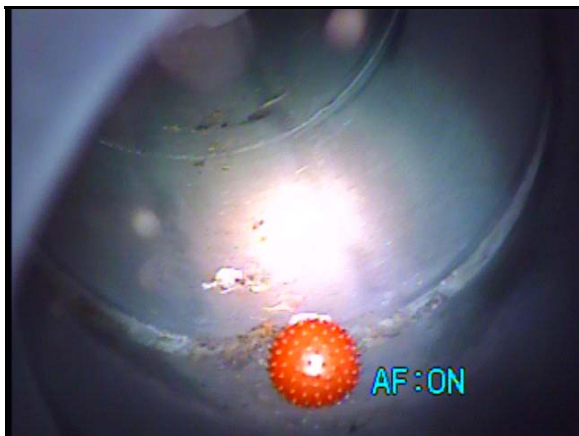
Catch Basin CB-M24-316



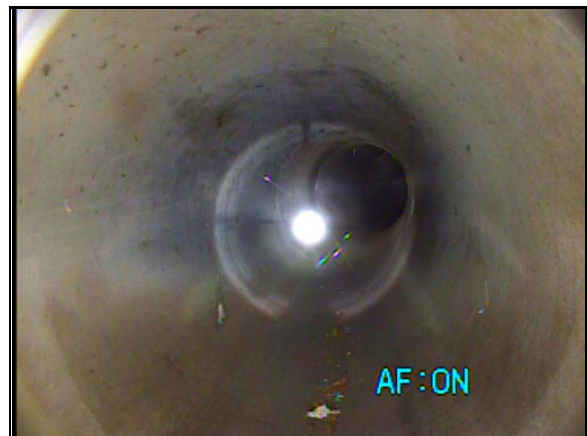
View inside outlet pipe



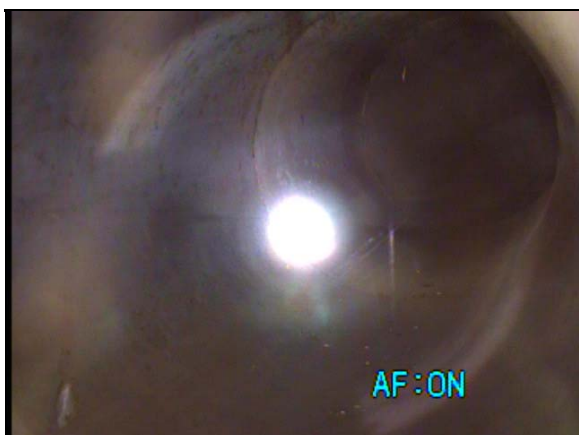
View inside outlet pipe



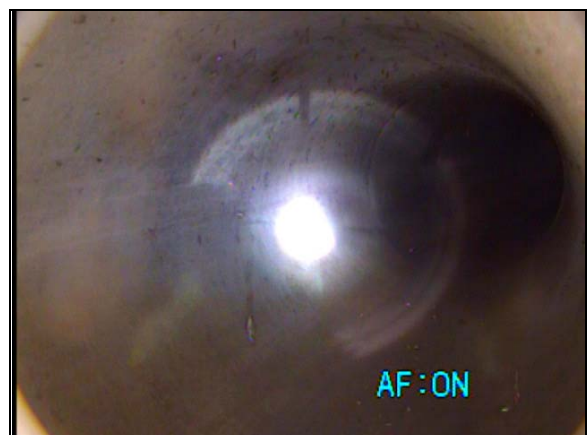
View inside outlet pipe



View inside inlet pipe



View inside inlet pipe



View inside inlet pipe

SDFA 15 - Wooley Rd

Catch Basin CB-M24-318

Evaluation date/time: 9/16/2014 1:30 PM
Address/location: W Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190011
Longitude: -119.189343
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.):
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: N/A
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Absence
Illegal dumping evidence: No

Notes

Does not exist.

Photos



Location view

SDFA 15 - Wooley Rd

Catch Basin CB-N24-300

Evaluation date/time: 9/18/2014 3:29 AM
Address/location: C St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190408
Longitude: -119.181383
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.7
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment. Collects runoff from nearby irrigation.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-300_CB-N24-304	In	S	18	RCP	2.7	5	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 15 - Wooley Rd

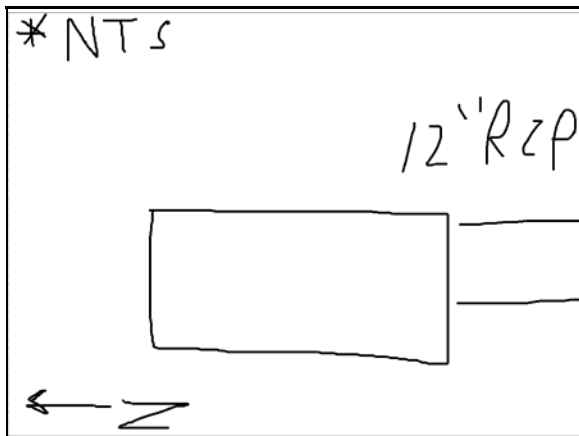
Catch Basin CB-N24-300



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View inside catch basin

SDFA 15 - Wooley Rd

Catch Basin CB-N24-300



View of outlet

SDFA 15 - Wooley Rd

Catch Basin CB-N24-301

Evaluation date/time: 9/18/2014 3:19 AM
Address/location: C St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190451
Longitude: -119.181211
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 240
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Trash/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment. Unable to evaluate pipe due to placement within catch basin. There is a palm tree growing in the catch basin.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-301_CB-N24-304	Out	W	Unkn own	RCP	4	5		Unknown	Unknow n		Unknown	Level 3 - Fair	Condition/Loc ation	Under roadway.

Photos

SDFA 15 - Wooley Rd

Catch Basin CB-N24-301



Location view



Catch basin



View inside catch basin



View inside catch basin



View inside catch basin



Tree growing inside catch basin

SDFA 15 - Wooley Rd

Catch Basin CB-N24-302

Evaluation date/time: 9/14/2014 11:33 AM
Address/location: S E St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190311
Longitude: -119.183636
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 180
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 6
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-302_MH-N24-100	Out	E	24	RCP	6	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 15 - Wooley Rd

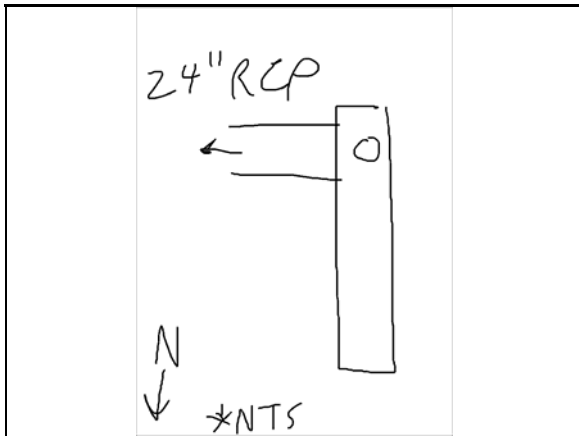
Catch Basin CB-N24-302



Location view



Catch basin



Sketch



View inside catch basin



View of outlet

SDFA 15 - Wooley Rd

Catch Basin CB-N24-303

Evaluation date/time: 9/14/2014 11:45 AM
Address/location: S E St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190322
Longitude: -119.183679
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 200
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 6.75
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 5
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 36-inch and 24-inch RCP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-303_MH-N24-103	Out	S	36	RCP	6.75	5	5	Trash	None	0	Level 2 - Minor Damage	Level 2 - Good	Condition	Appears to be staining and exposed reinforcing steel at end of pipe. Under roadway.
PL-N24-1200_PL-N24-1201	In	E	24	RCP	6.75	0	10	Trash	None	35	Level 2 - Minor Damage	Level 2 - Good	Condition/Sediment	Pipe is obstructed by plywood or concrete. Under roadway.

Photos

SDFA 15 - Wooley Rd

Catch Basin CB-N24-303



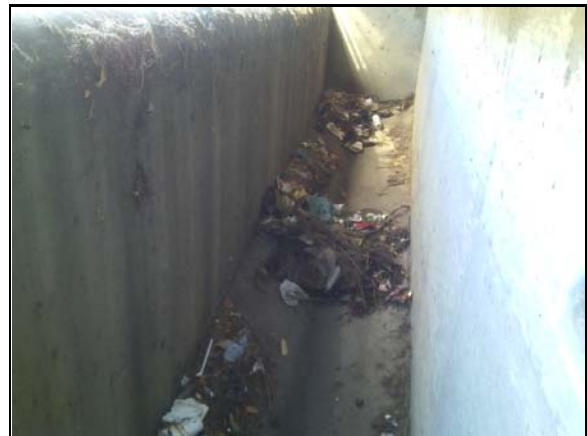
Location view



Catch basin



View of catch basin



View inside catch basin



View of inlet and outlet



View inside outlet pipe

SDFA 15 - Wooley Rd

Catch Basin CB-N24-303



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe

SDFA 15 - Wooley Rd

Catch Basin CB-N24-303



View inside inlet pipe



View inside inlet pipe



View inside inlet pipe



View inside inlet pipe



View inside inlet pipe

SDFA 15 - Wooley Rd

Catch Basin CB-N24-304

Evaluation date/time: 9/18/2014 3:42 AM
Address/location: Wooley Rd and C St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190344
Longitude: -119.181125
Property type: Public
Access: Good

Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 108
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3.6
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Rock/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

Pipe Connections

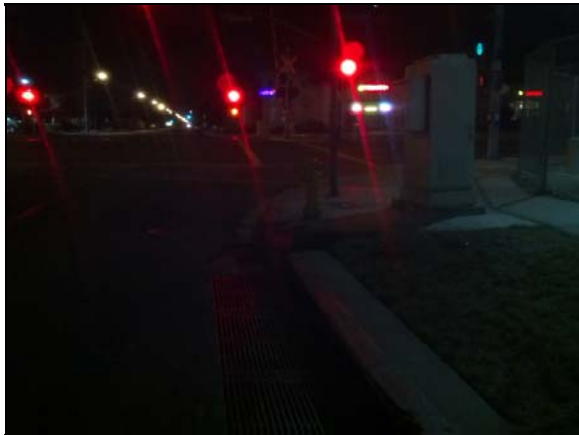
Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-300_CB-N24-304	In	S	18	RCP	3.6	5	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	
CB-N24-301_CB-N24-304	In	W	Unknown	RCP	3.6			Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Location	Under roadway.

SDFA 15 - Wooley Rd

Catch Basin CB-N24-304

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-304_MH-N24-106	Out	S	42	RCP	3.6	5	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

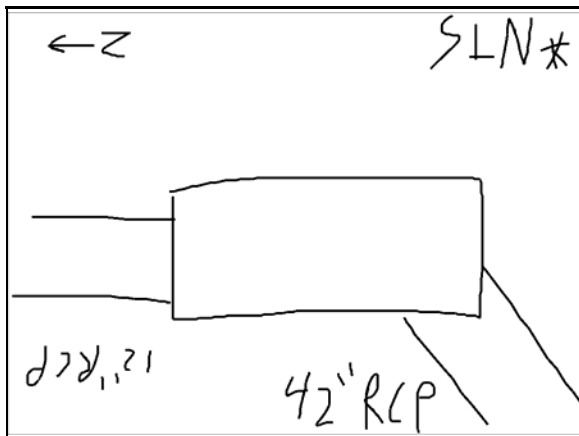
Photos



Location view



Catch basin



Sketch



View inside catch basin

SDFA 15 - Wooley Rd

Catch Basin CB-N24-304



View inside outlet pipe



View inside outlet pipe



View of inlet

SDFA 15 - Wooley Rd

Catch Basin CB-N24-306

Evaluation date/time: 9/16/2014 2:30 PM
Address/location: Alley off of Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190236
Longitude: -119.180503
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 24
Material: Concrete
Grade/rim-invert (ft.): 2.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Unknown
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-306_JS-N24-500	Out	S	Unknown	Unknown	2.3	0		Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Location	Under roadway.

Photos

SDFA 15 - Wooley Rd

Catch Basin CB-N24-306



Location view



Catch basin



View inside catch basin



View inside catch basin

SDFA 15 - Wooley Rd

Catch Basin CB-N24-307

Evaluation date/time: 9/16/2014 1:44 PM
Address/location: A St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190215
Longitude: -119.178722
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 18-inch RCP

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-307_JS-N24-502	Out	SE	12	RCP	2.5	0	0	None	None	0	Level 1 - No Damage	Level 2 - Good	Condition/Location	Under roadway.

Photos

SDFA 15 - Wooley Rd

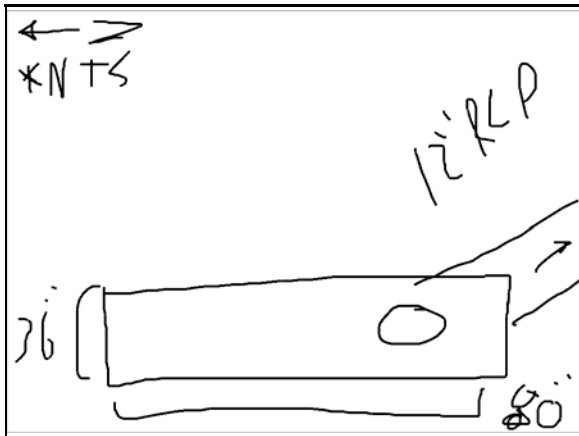
Catch Basin CB-N24-307



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View inside catch basin

SDFA 15 - Wooley Rd

Catch Basin CB-N24-307



View inside catch basin



View inside outlet pipe

SDFA 15 - Wooley Rd

Catch Basin CB-N24-308

Evaluation date/time: 9/16/2014 1:44 PM
Address/location: A St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190215
Longitude: -119.178722
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 18-inch RCP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-308_MH-N24-104	Out	S	18	RCP	2.5	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 15 - Wooley Rd

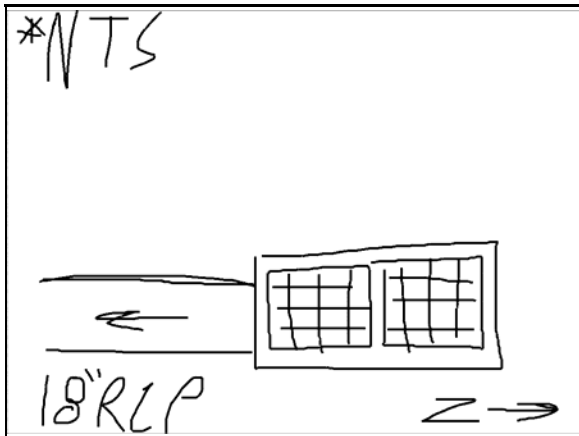
Catch Basin CB-N24-308



Location view



Catch basin



Sketch



View inside catch basin



View of outlet



View inside outlet pipe

SDFA 15 - Wooley Rd

Catch Basin CB-N24-309

Evaluation date/time: 9/16/2014 2:56 PM
Address/location: W Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.190118
Longitude: -119.179022
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 7
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 25
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Connected to 18-inch RCP. Significant buildup of leaves.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N24-309_JS-N24-503	Out	S	18	RCP	7		50	Vegetation	Unknown		Unknown	Level 4 - Poor	Condition/Sediment	Under roadway.

Photos

SDFA 15 - Wooley Rd

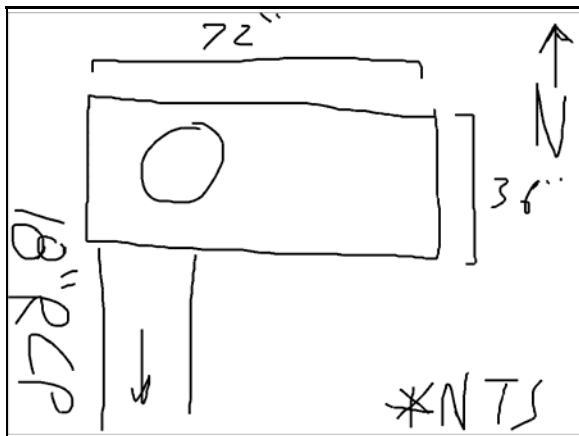
Catch Basin CB-N24-309



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin

SDFA 15 - Wooley Rd

Catch Basin CB-N24-310

Evaluation date/time: 9/16/2014 1:58 PM
Address/location: W Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.19015
Longitude: -119.178421
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 8.5
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
JS-N24-501_MH-N24-104	Out	W	Unkn own	RCP	8.5	5	5	Silt/Gravel	Stain	0	Level 1 - No Damage	Level 2 - Good	Condition/Loc ation	Under roadway.
MH-N24-101_JS-N24-501	In	W	Unkn own	RCP	8.5	5	5	Silt/Trash	Stain	0	Level 1 - No Damage	Level 2 - Good	Condition/Loc ation	Under roadway.

Photos

SDFA 15 - Wooley Rd

Catch Basin CB-N24-310



Location view



Catch basin



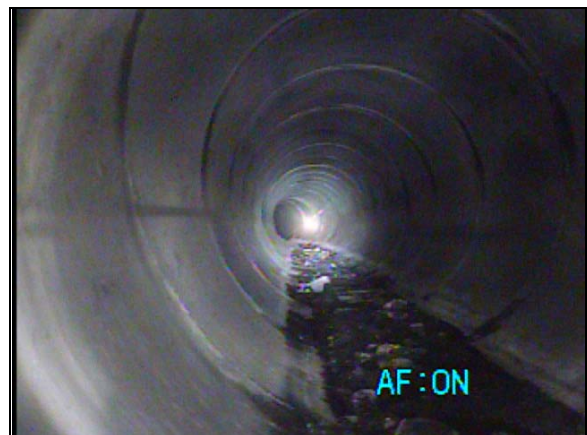
View inside catch basin



View of outlet



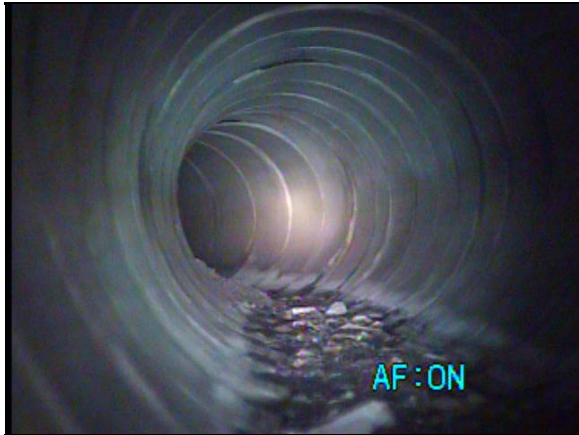
View inside outlet pipe



View inside outlet pipe

SDFA 15 - Wooley Rd

Catch Basin CB-N24-310



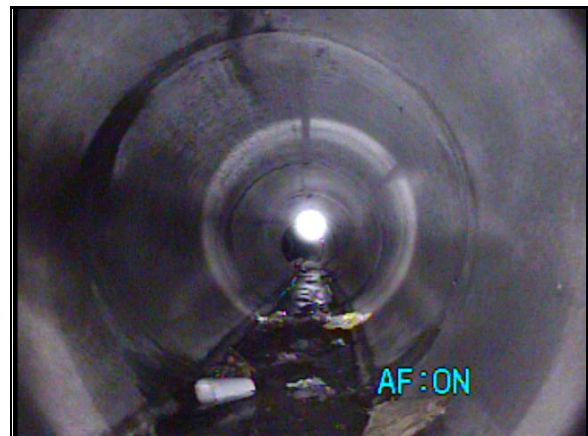
View inside outlet pipe



View inside outlet pipe



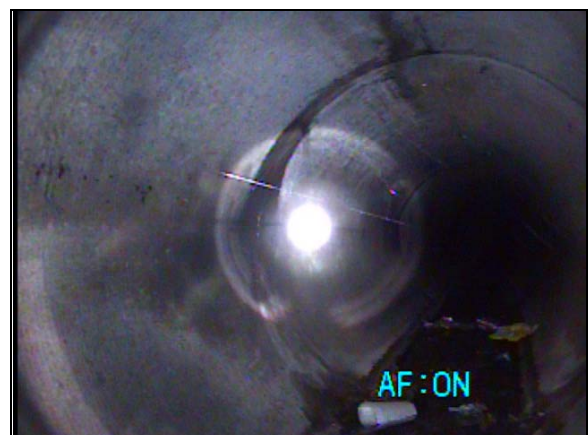
View inside outlet pipe



View inside inlet pipe



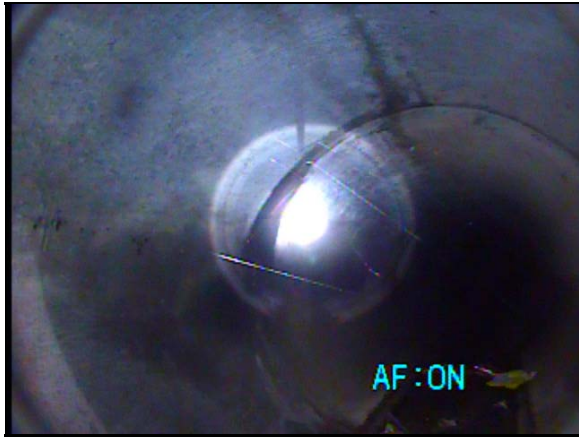
View inside inlet pipe



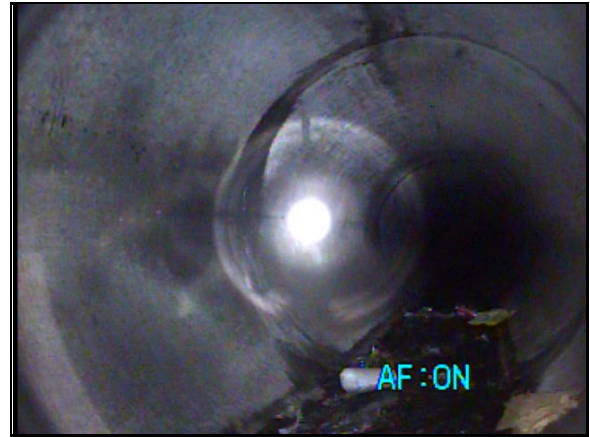
View inside inlet pipe

SDFA 15 - Wooley Rd

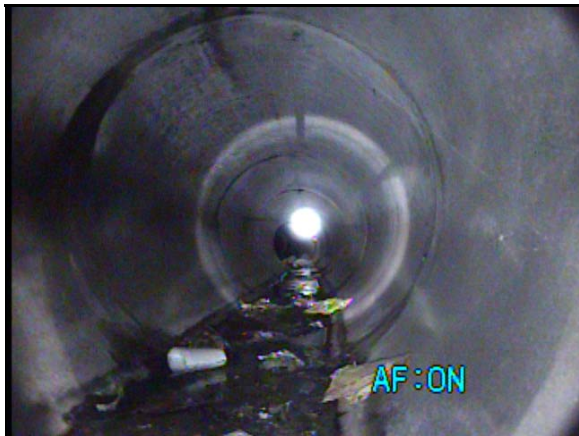
Catch Basin CB-N24-310



View inside inlet pipe



View inside inlet pipe



View inside inlet pipe

SDFA 15 - Wooley Rd

Manhole MH-M24-103

Evaluation date/time: 9/18/2014 3:45 AM
Address/location: W Wooley Rd
Map grid reference:
Weather: Dry

General Information

Latitude:
Longitude:
Property type: Unknown
Access: Unknown
Traffic: Unknown
Ground surface type: Asphalt
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Unknown
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Absence
Illegal dumping evidence:

Notes

Unable to locate.

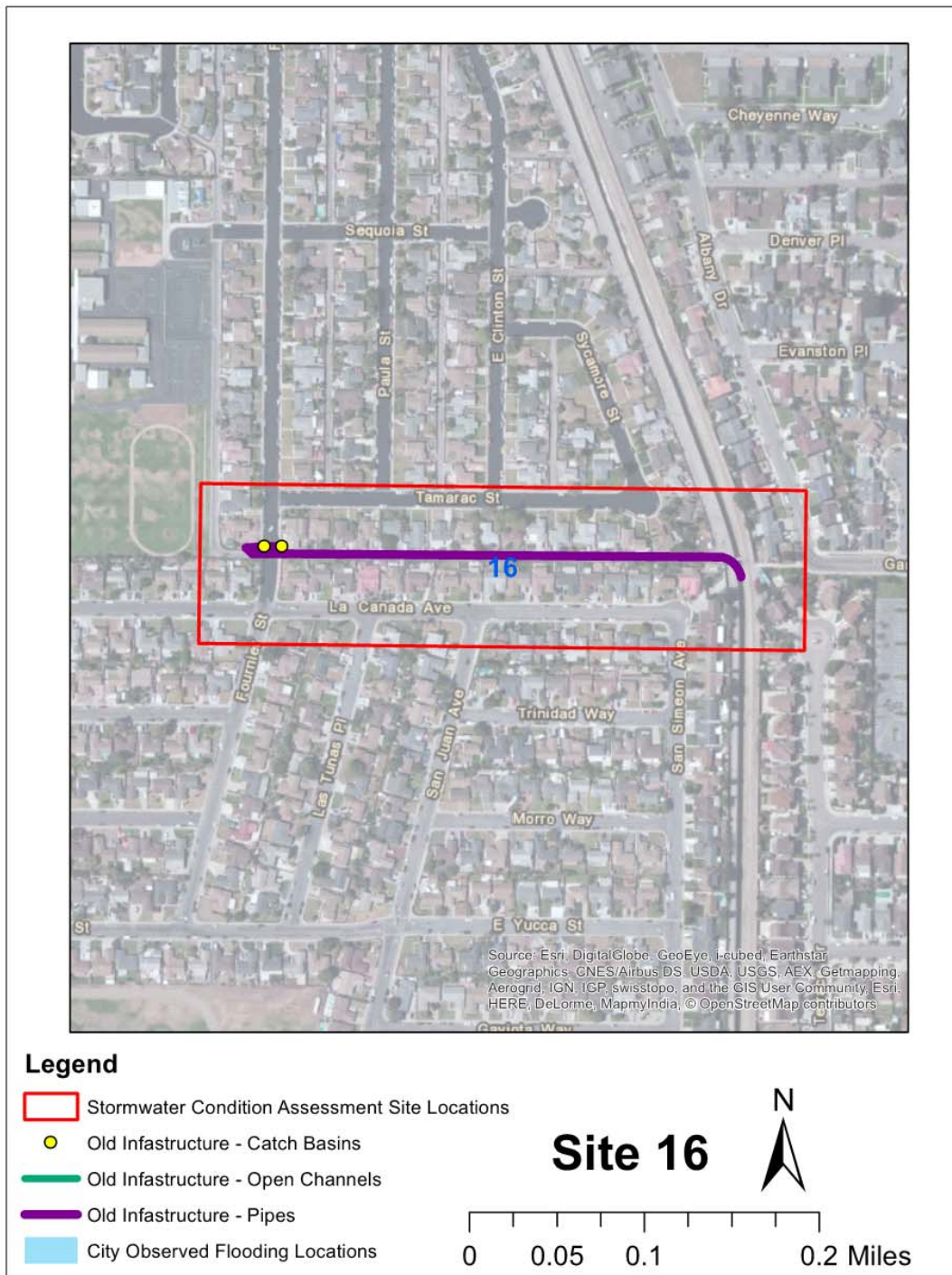
Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
MH-M24-105_MH-M24-103	Out	Unkn own	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Condition/Loc ation	Under roadway. Unable to locate access point.
TS-N24-803_MH-M24-105	Out	Unkn own	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Condition/Loc ation	Under roadway. Unable to locate access point.

Photos

SDFA 16 - Fournier St

Area Map



SDFA 16 - Fournier St

Catch Basin CB-P29-300

Evaluation date/time: 9/12/2014 11:31 AM
Address/location: Fournier St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.168242
Longitude: -119.170482
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 82
Width (in.): 24
Material: Concrete
Grade/rim-invert (ft.): 2.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Monitor buildup of trash. Connected to 12-inch CMP CB-P29-300_JS-P29-500. Unknown 8-inch RCP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P29-300_JS-P29-500	Out	SE	12	CMP	2.3	0	5	Trash/Vegetation	None	0	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location	Under roadway.
S Inlet	In	N	8	RCP	2.2	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos

SDFA 16 - Fournier St

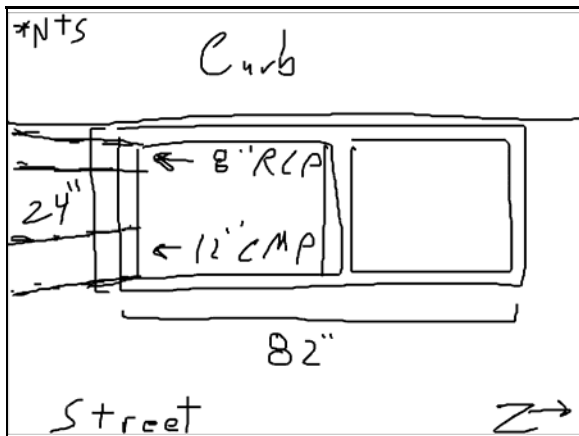
Catch Basin CB-P29-300



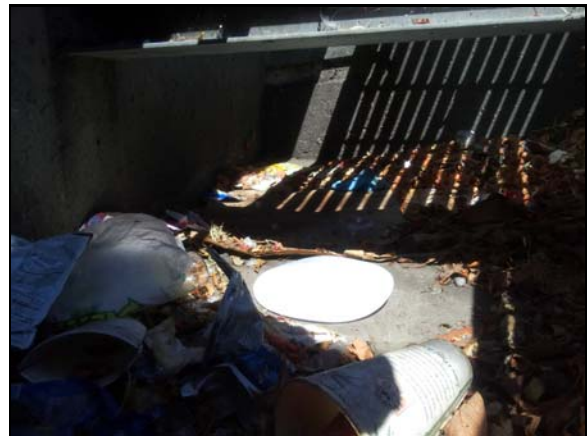
Location view



Catch basin



Sketch



View inside catch basin



View of concrete wall



View inside catch basin

SDFA 16 - Fournier St

Catch Basin CB-P29-300



View of outlet



View inside outlet pipe



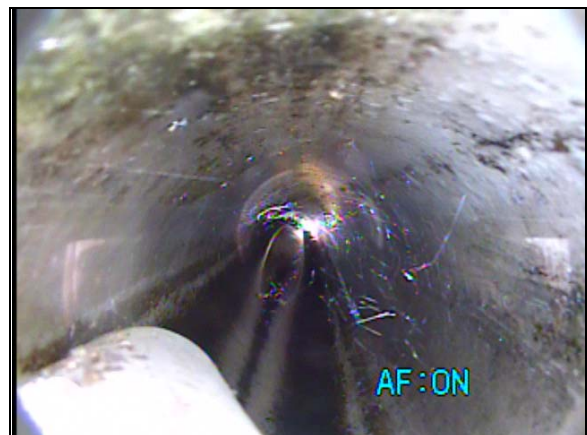
View inside outlet pipe



View of inlet



View inside inlet pipe



View inside inlet pipe

SDFA 16 - Fournier St

Catch Basin CB-P29-301

Evaluation date/time: 9/12/2014 12:12 PM
Address/location: Fournier St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.168178
Longitude: -119.17016
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 82
Width (in.): 24
Material: Concrete
Grade/rim-invert (ft.): 2.2
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Monitor trash buildup. Connected to 11-inch high by 21-inch wide CMP CB-P29-301_JS-P29-501.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-P29-301_JS-P29-501	Out	S	11H x 21W	CMP	2.2	0	5	Trash/Vegetation	None	0	Level 3 - Moderate Damage	Level 3 - Fair	Condition	

Photos

SDFA 16 - Fournier St

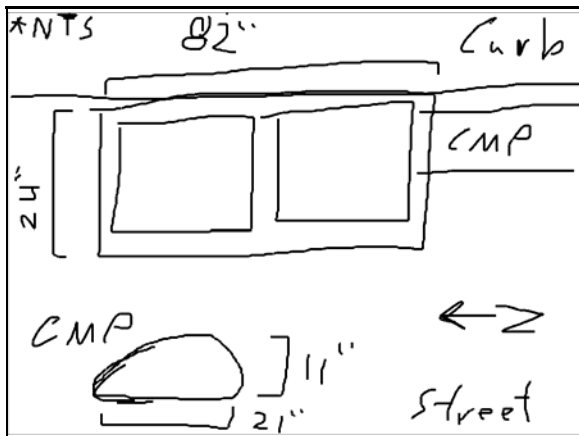
Catch Basin CB-P29-301



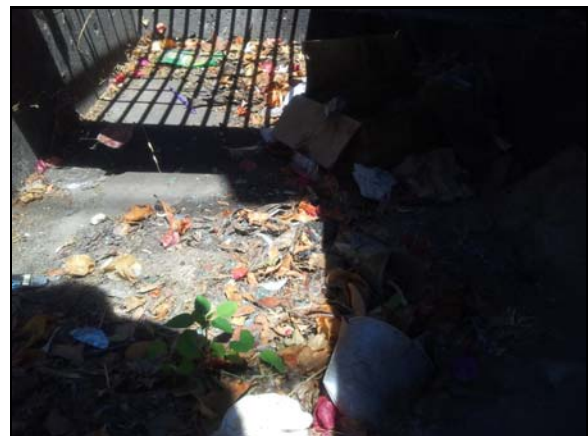
Location view



Catch basin



Sketch



View inside catch basin



View of outlet



View inside outlet pipe

SDFA 16 - Fournier St

Catch Basin CB-P29-301



View inside outlet pipe

SDFA 16 - Fournier St

Culvert JS-P29-501_JS-P29-504

Evaluation date/time: 9/12/2014 12:45 PM
Address/location: Ally by Tamarac
Map grid reference:
Weather: Dry

General Information

Latitude: 34.168081
Longitude: -119.166276
Property type: Public
Access: Poor
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 30
Width (in.):
Material: Unknown
Grade/rim-invert (ft.): 10
Water level (%):
Devices: Flap gate

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%):
Type of sediment/debris Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to access to evaluate.

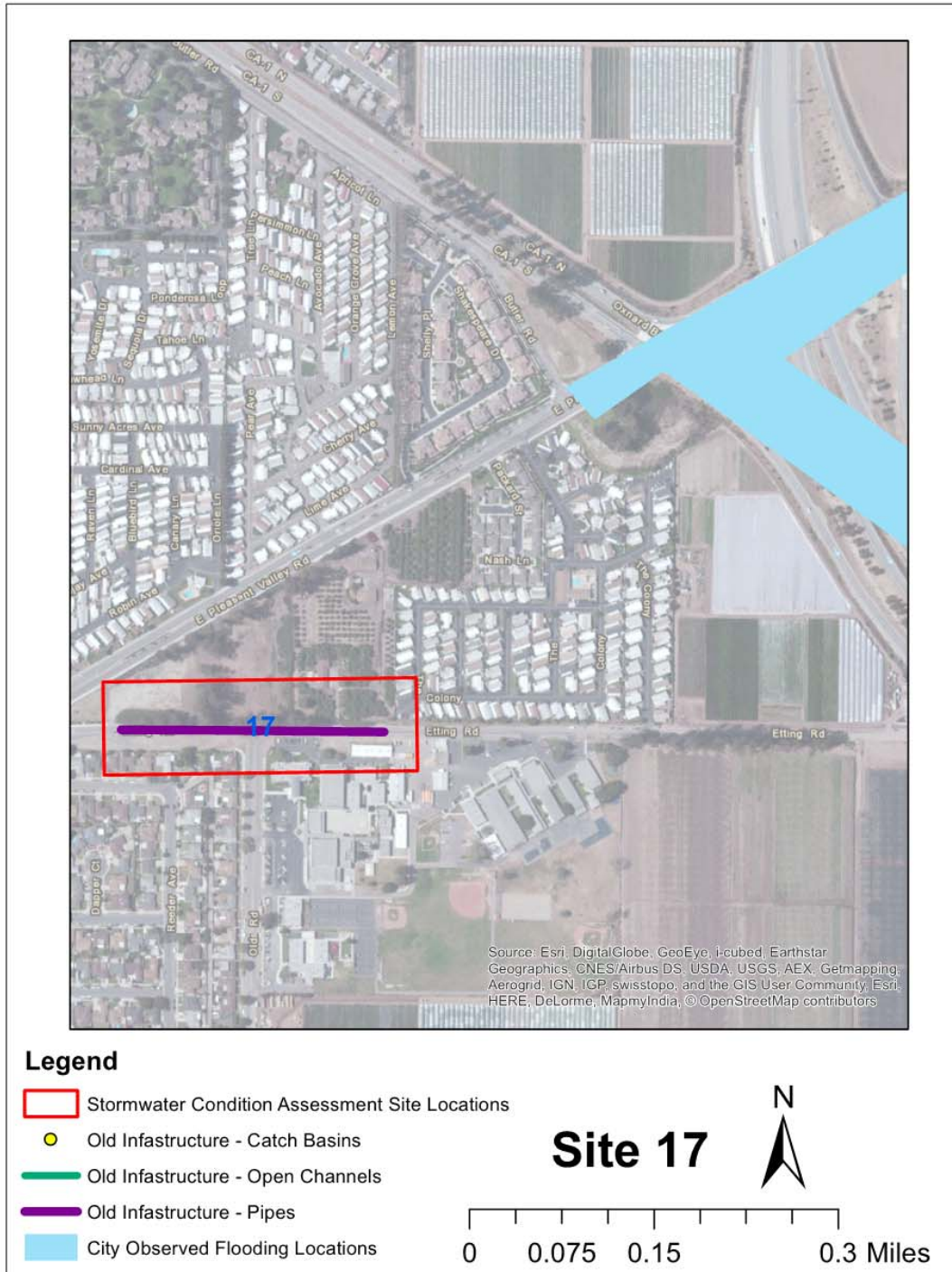
Photos



Location View

SDFA 17 - Etting Rd

Area Map



SDFA 17 - Etting Rd

Manhole MH-S30-109

Evaluation date/time: 9/17/2014 9:58 PM
Address/location: Etting Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.161955
Longitude: -119.148939
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 24
Width (in.):
Material: Concrete
Grade/rim-invert (ft.): 11.5
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 15
Type of sediment/debris: Silt/Gravel
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
MH-S30-109_MH-S30-108	In	E	30H x 48W	CMP	11.5	0	15	Silt/Gravel	None	0	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location	Arched CMP with moderate corrosion at areas where coal tar coating is missing. Under roadway.
MH-S30-110_MH-S30-109	Out	E	30H x 48W	CMP	11.5	0	15	Silt/Gravel	None	0	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location	Arched CMP with moderate corrosion at areas where coal tar coating is missing. Under roadway.

Photos

SDFA 17 - Etting Rd

Manhole MH-S30-109



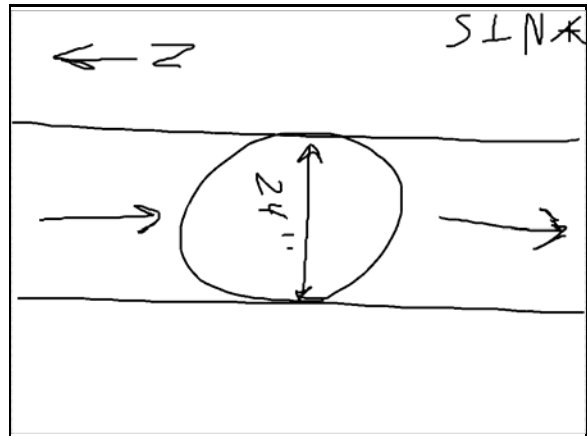
Location view



View inside manhole



View inside manhole



Sketch. North arrow is actually pointing West.



View inside outlet pipe



View inside outlet pipe

SDFA 17 - Etting Rd

Manhole MH-S30-109



View inside outlet pipe



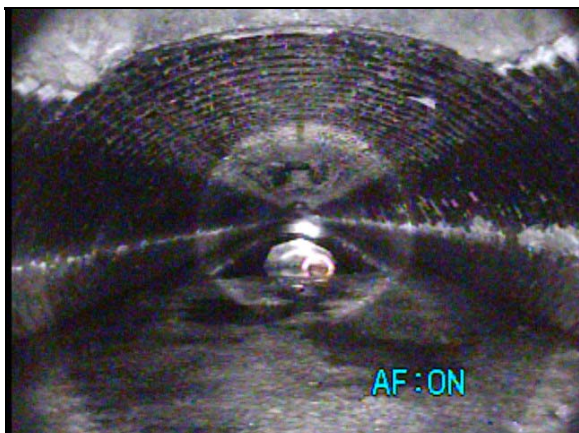
View inside outlet pipe



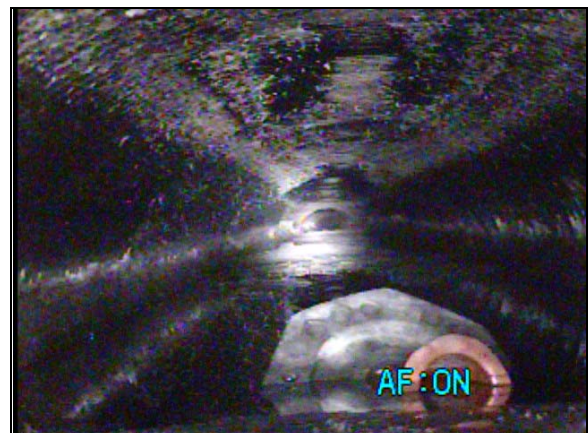
View inside inlet pipe



View inside inlet pipe



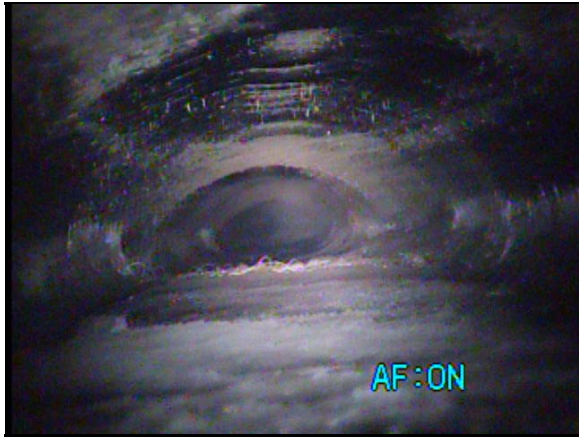
View inside inlet pipe



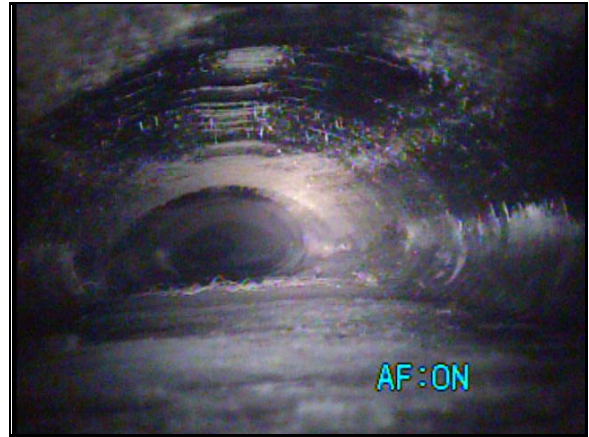
View inside inlet pipe

SDFA 17 - Etting Rd

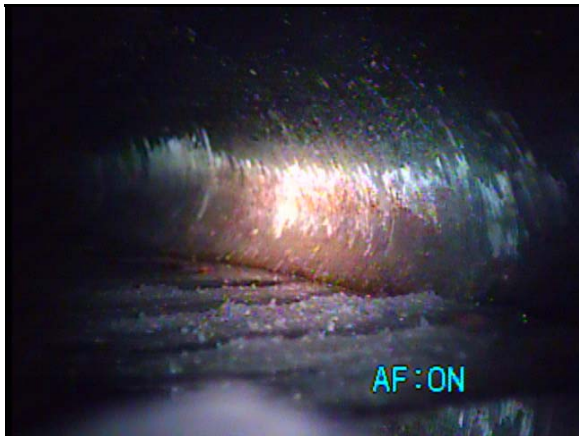
Manhole MH-S30-109



View inside inlet pipe



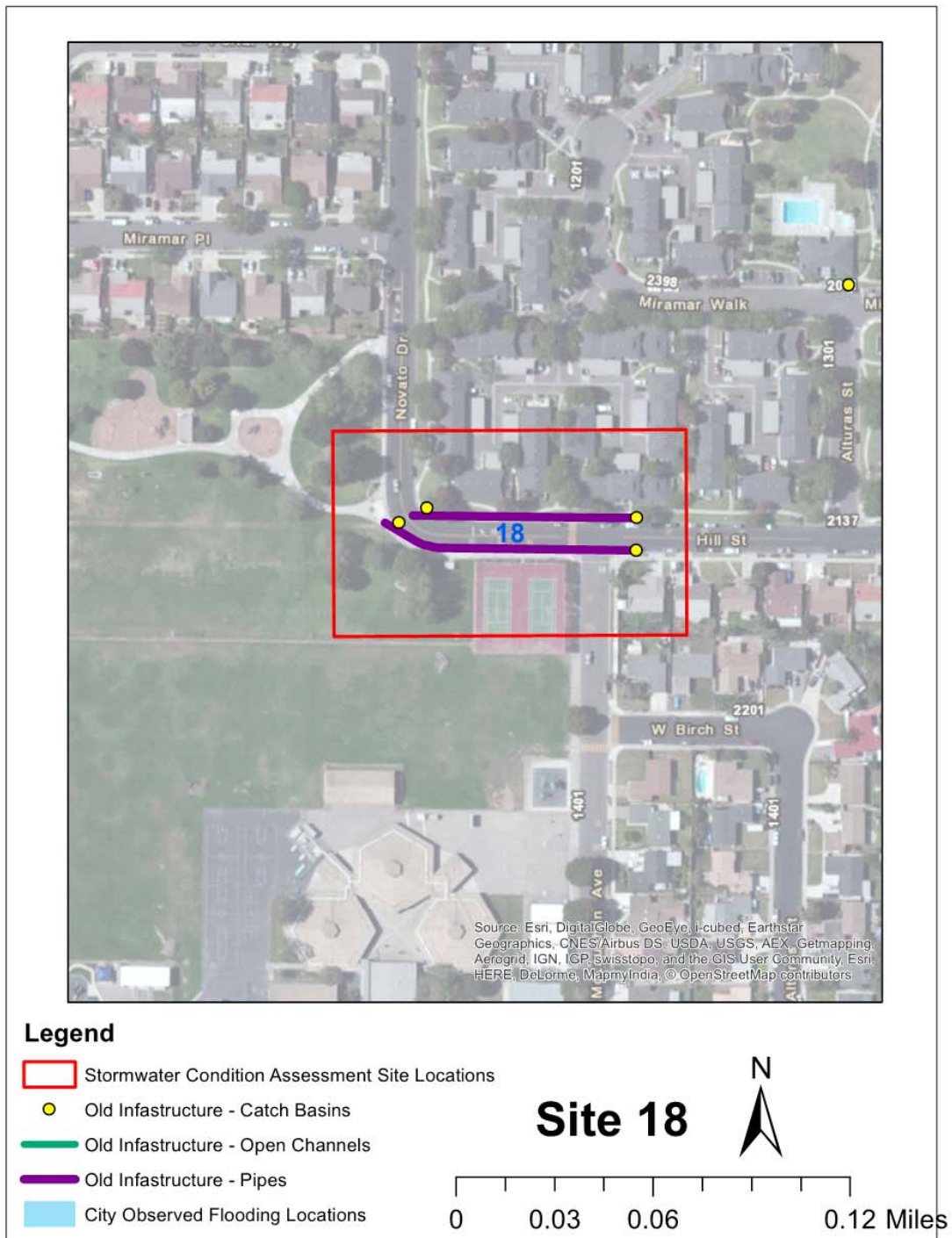
View inside inlet pipe



View inside inlet pipe

SDFA 18 - Hill St

Area Map



SDFA 18 - Hill St

Catch Basin CB-K25-300

Evaluation date/time: 9/13/2014 11:52 AM
Address/location: Hill St and Novato Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.186116
Longitude: -119.203656
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 116
Width (in.): 20
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to CB-K25-301_JS-K25-500. Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-K25-300_JS-K25-500	Out	SW	18H x 92W	RCB	2.5	5	5	Silt/Vegetation/Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
MH-K25-100_CB-K25-300	In	SW	18	RCP	2.3	5	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos

SDFA 18 - Hill St

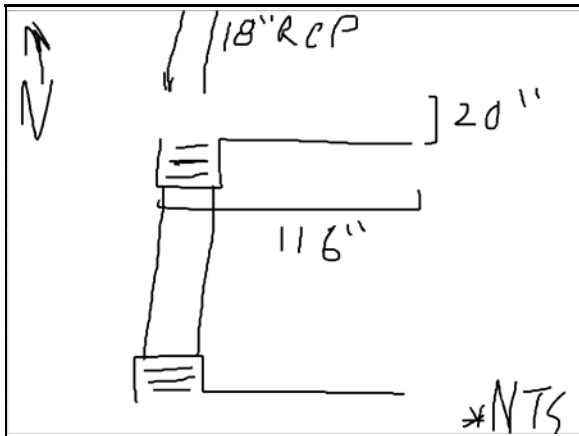
Catch Basin CB-K25-300



Location view



Catch basin



Sketch



View inside catch basin



View of inlet

SDFA 18 - Hill St

Catch Basin CB-K25-301

Evaluation date/time: 9/13/2014 12:52 PM
Address/location: Hill St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.18617
Longitude: -119.202862
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 120
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.6
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-K25-301_JS-K25-500	Out	W	18	RCP	2.6	5	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	

Photos

SDFA 18 - Hill St

Catch Basin CB-K25-301



Catch basin



View inside catch basin



View of inlet



View inside pipe from inlet

SDFA 18 - Hill St

Catch Basin CB-K25-302

Evaluation date/time: 9/13/2014 11:26 AM
Address/location: Hill St and Novato Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.186149
Longitude: -119.203699
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 116
Width (in.): 46
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to box culvert CB-K25-303_JS-K25-501. Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-K25-303_JS-K25-501	In/O ut	W	18H x 92W	RCB	2.5	5	5	Silt/Vegetation/Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway and park.

Photos

SDFA 18 - Hill St

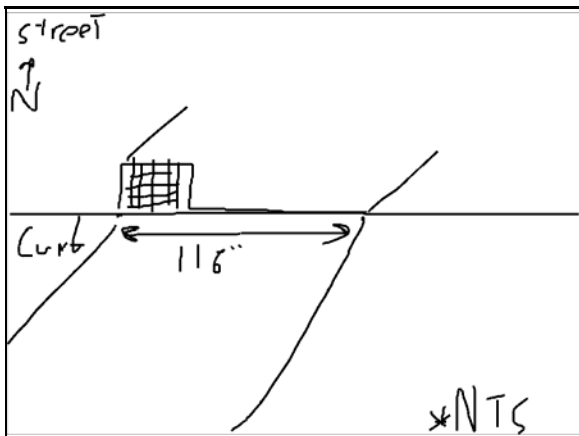
Catch Basin CB-K25-302



Location view



Catch basin



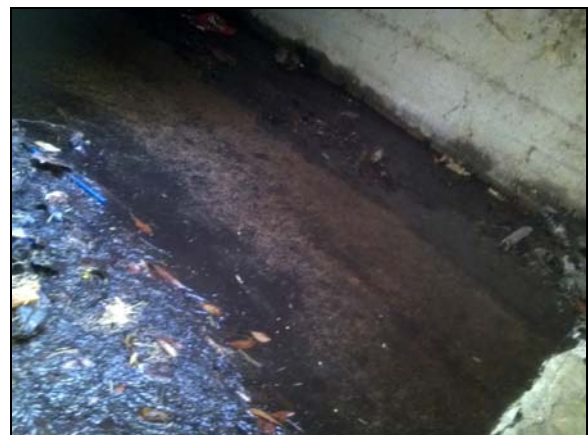
Sketch



View inside catch basin



View inside catch basin



View inside catch basin

SDFA 18 - Hill St

Catch Basin CB-K25-303

Evaluation date/time: 9/13/2014 12:27 PM
Address/location: Hill St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.181246
Longitude: -119.194815
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 120
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.8
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 25
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Moderate buildup of debris and trash.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-K25-303_JS-K25-501	Out	W	18	RCP	2.8	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway. Minor cracking in pipe near inlet.

Photos

SDFA 18 - Hill St

Catch Basin CB-K25-303



Location view



Catch basin



View inside catch basin



View inside catch basin



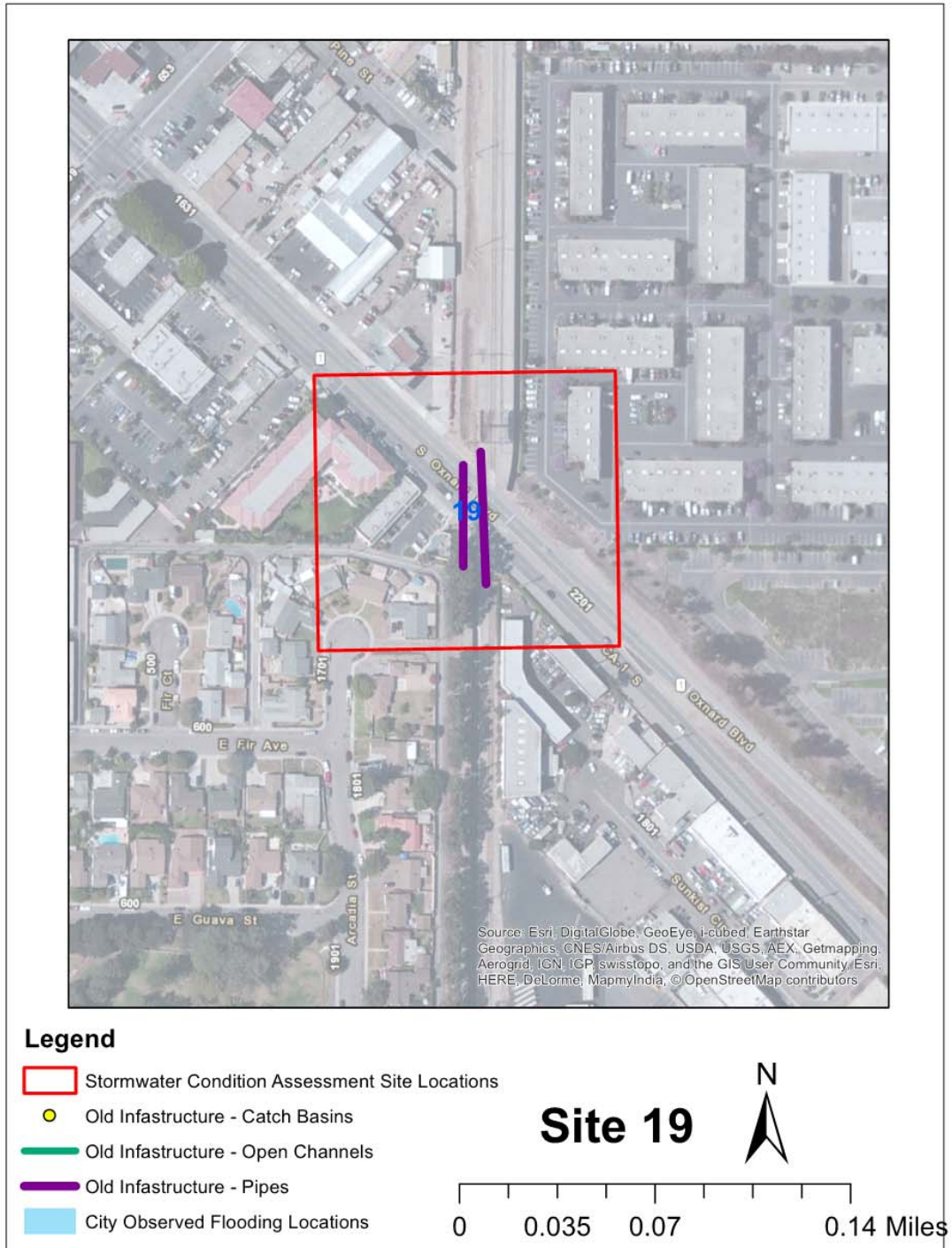
View inside pipe from inlet



View inside pipe from inlet

SDFA 19 - Pacific Coast Hwy

Area Map



SDFA 19 - Pacific Coast Hwy

Culvert MIS-P25-812_JS-P25-509

Evaluation date/time: 9/18/2014 5:16 AM
Address/location: E Pacific Coast Hwy south of Date St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.182994
Longitude: -119.168444
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Dirt
Dia./Ht. (in.):
Width (in.):
Material: Unknown
Grade/rim-invert (ft.): 4
Water level (%):
Devices: Headwall

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence: Yes

Notes

Unable to evaluate due to person inhabiting structure. Under roadway.

Photos



Location view



Location view

SDFA 19 - Pacific Coast Hwy

Culvert MIS-P25-812_JS-P25-509



Location view

SDFA 19 - Pacific Coast Hwy

Manhole MH-P25-108

Evaluation date/time: 9/18/2014 5:04 AM
Address/location: E Pacific Coast Hwy
Map grid reference:
Weather: Dry

General Information

Latitude: 34.183016
Longitude: -119.168572
Property type: Public
Access: Good

Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 8.4
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Gravel/Rock/Other
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Broken flap gate at bottom of manhole.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
JS-P25-506_MH-P25-108	In	SE	36	CMP	8.4	5	0	None	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Location	Under roadway. Minor surface corrosion. Appears that the flap gate for the inlet pipe has broken off.
MH-P25-108_MIS-P25-807	Out	S	36	RCP	8.4	5	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

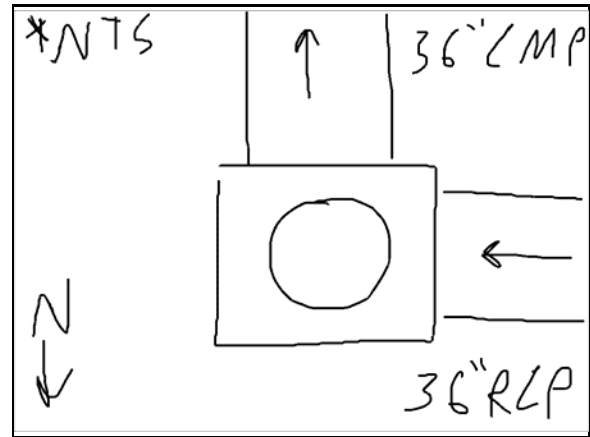
Photos

SDFA 19 - Pacific Coast Hwy

Manhole MH-P25-108



Location view



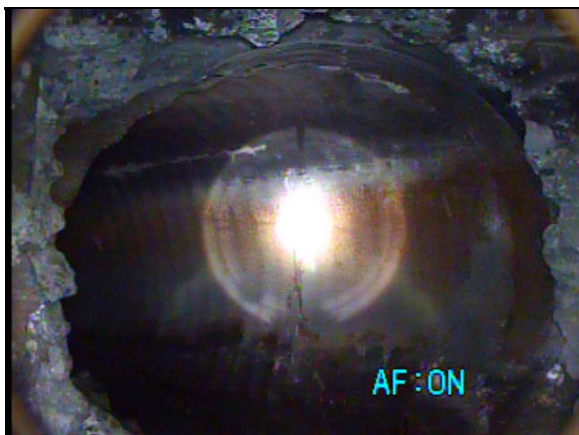
Sketch



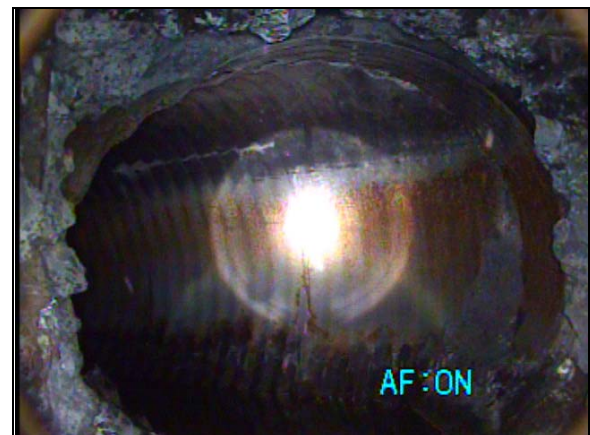
View inside manhole



View inside manhole



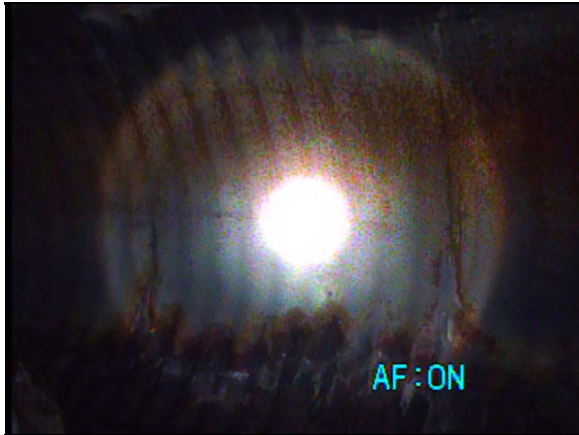
View inside inlet pipe



View inside inlet pipe

SDFA 19 - Pacific Coast Hwy

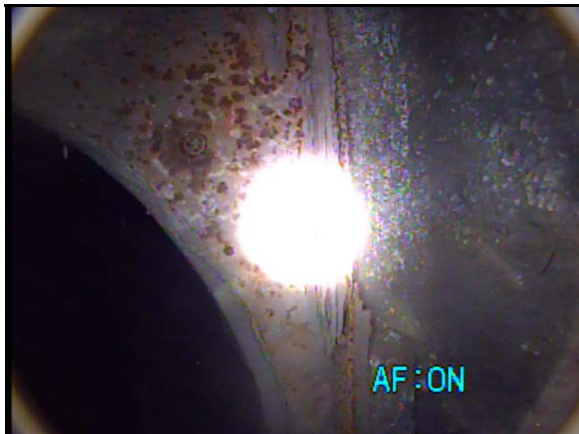
Manhole MH-P25-108



View of pipe wall



View of inlet



View of inlet



View inside outlet pipe



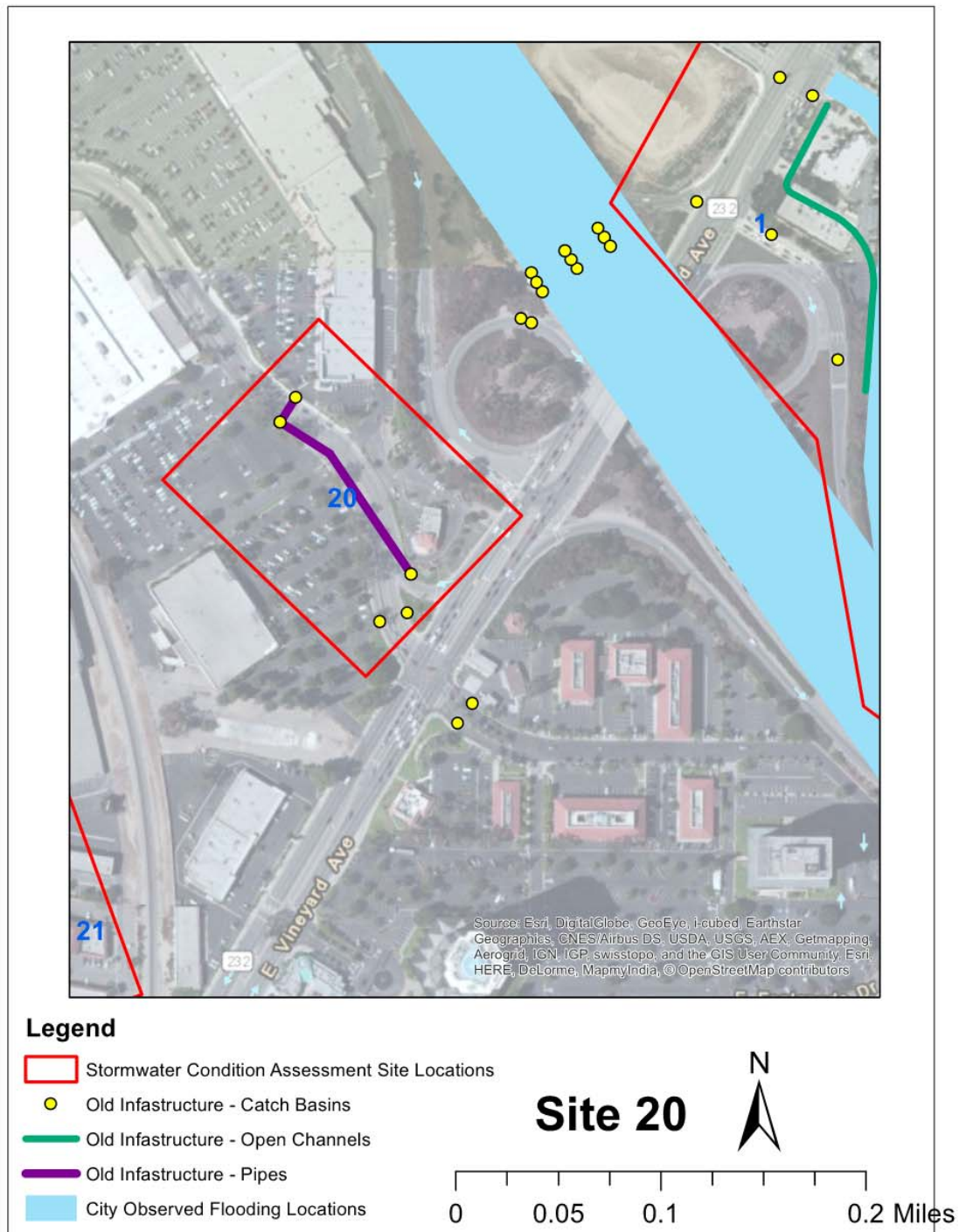
View inside outlet pipe



View inside outlet pipe

SDFA 20 - Esplanade Dr

Area Map



SDFA 20 - Esplanade Dr

Catch Basin CB-014-327

Evaluation date/time: 9/17/2014 12:54 PM
Address/location: W Esplanade Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.231596
Longitude: -119.175696
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36

Material: Concrete
Grade/rim-invert (ft.): 2
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 85
Type of sediment/debris: Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 5 - Immediate Attention
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

Significant buildup of leaves.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
Outlet	Out	SW	12	CMP	2	0	20	Trash/Silt	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Location/Sediment	Under roadway. Loss of galvanization at invert.

Photos

SDFA 20 - Esplanade Dr

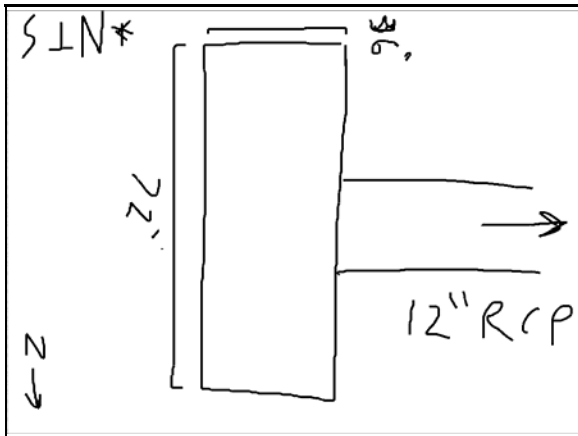
Catch Basin CB-014-327



Location view



Catch basin



Sketch



View inside catch basin



View of outlet



View inside outlet pipe

SDFA 20 - Esplanade Dr

Catch Basin CB-014-327



View inside outlet pipe

SDFA 20 - Esplanade Dr

Catch Basin CB-014-328

Evaluation date/time: 9/17/2014 2:42 PM
Address/location: W Esplanade Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.231564
Longitude: -119.175782
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.):
Water level (%):
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to evaluate due to erosion control devices in place.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
Inlet	In	SW	12	CMP		0	20	Trash/Silt	None	0	Level 2 - Minor Damage	Level 3 - Fair	Condition/Loc ation/Sedime nt	Under roadway.
Outlet	Out	SE	Unkn own	Unknow n				Unknown	Unknow n		Unknown	Level 3 - Fair	Condition/Loc ation	Under roadway.

Photos

SDFA 20 - Esplanade Dr

Catch Basin CB-O14-328



Location view



Catch basin



Catch basin

SDFA 20 - Esplanade Dr

Catch Basin CB-014-329

Evaluation date/time: 9/17/2014 12:44 PM
Address/location: W Esplanade Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.230598
Longitude: -119.174752
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 144
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 6.2
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: SiltVegetationTrash
Infiltration in structure: Stain
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
Inlet	In	SE	24	CMP	6.2	5	0	None	None	0	Level 4 - Severe/Si gnificant Damage	Level 4 - Poor	Condition/Loc ation	Under roadway. Significant corrosion on invert
Outlet	Out	S	40	RCP	6.2	5	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 20 - Esplanade Dr

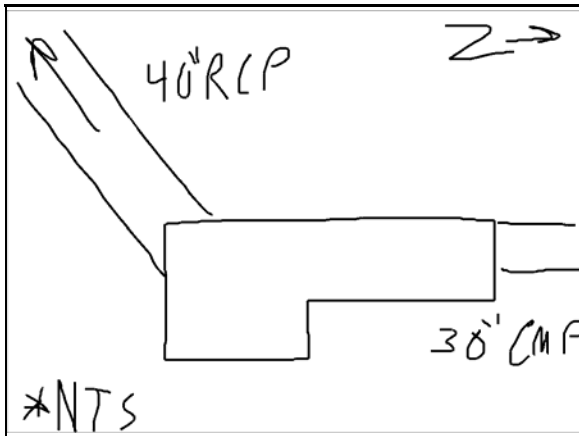
Catch Basin CB-014-329



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View inside catch basin

SDFA 20 - Esplanade Dr

Catch Basin CB-014-329



View inside catch basin



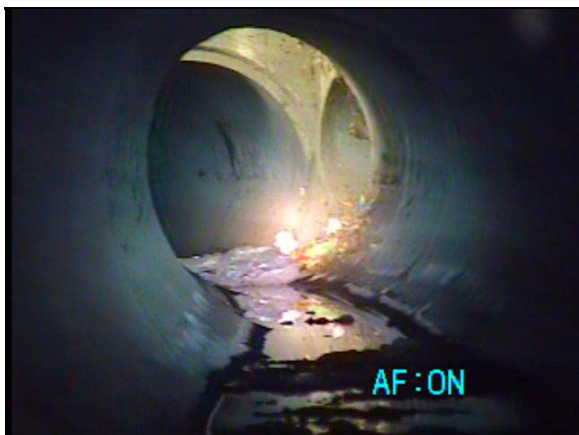
View of outlet



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe

SDFA 20 - Esplanade Dr

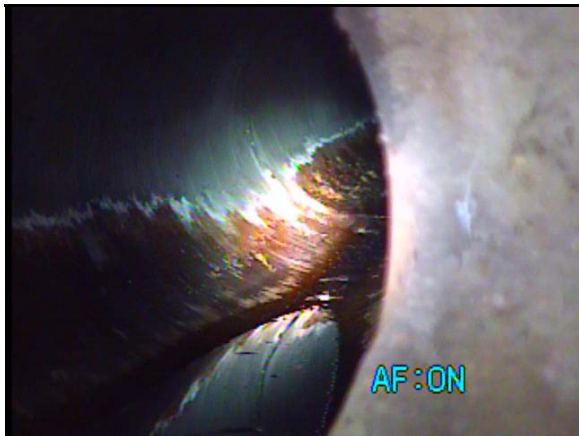
Catch Basin CB-O14-329



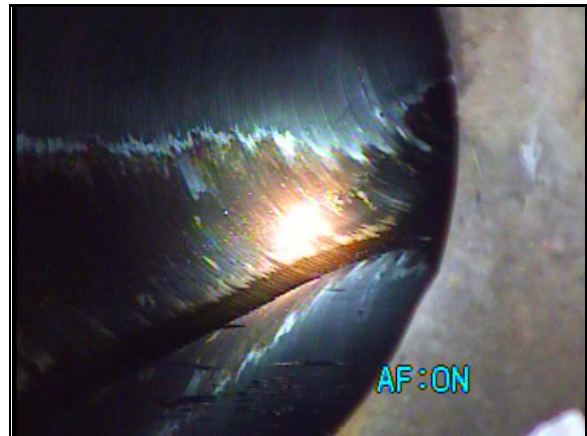
View of inlet



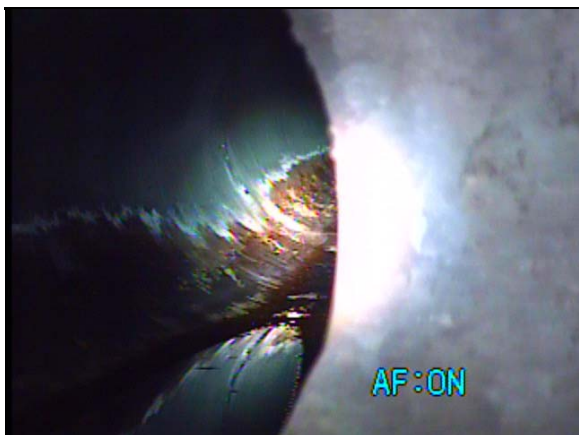
View inside inlet pipe



View inside inlet pipe



View inside inlet pipe



View inside inlet pipe



View inside inlet pipe

SDFA 20 - Esplanade Dr

Catch Basin CB-014-330

Evaluation date/time: 9/18/2014 5:51 AM
Address/location: W Esplanade Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.230416
Longitude: -119.174795
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt/Concrete/
Grass/Dirt
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 6
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: Yes
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment. Lid is partially buried.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
N Inlet	In	S	40	RCP	6.2	5	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
Outlet	Out	S	Unknown	Unknown	6			Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Loc ation	Under roadway.

SDFA 20 - Esplanade Dr

Catch Basin CB-014-330

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
W Inlet	In	E	24	RCP	4.6	5	5	Rock/Trash	None	0	Level 1 - No Damage	Level 2 - Good	Condition/Location	Under roadway.

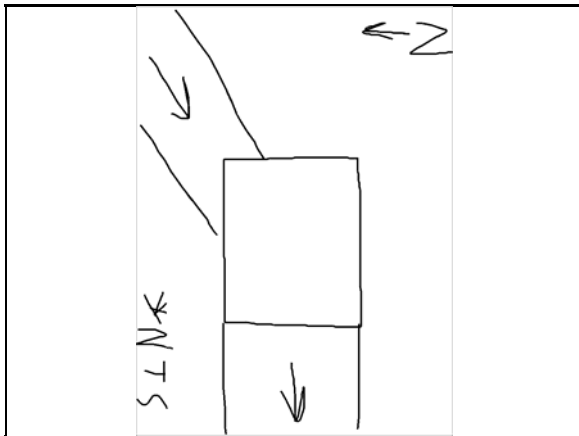
Photos



Location view



Catch basin



Sketch



View inside catch basin

SDFA 20 - Esplanade Dr

Catch Basin CB-O14-330



View inside catch basin



View inside catch basin

SDFA 20 - Esplanade Dr

Catch Basin CB-014-331

Evaluation date/time: 9/17/2014 2:54 PM
Address/location: W Esplanade Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.230341
Longitude: -119.175053
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.6
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 30
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
Outlet	Out	E	24	RCP	4.6	5	5	Rock/Trash	None	0	Level 1 - No Damage	Level 2 - Good	Condition/Location	Under roadway.

Photos

SDFA 20 - Esplanade Dr

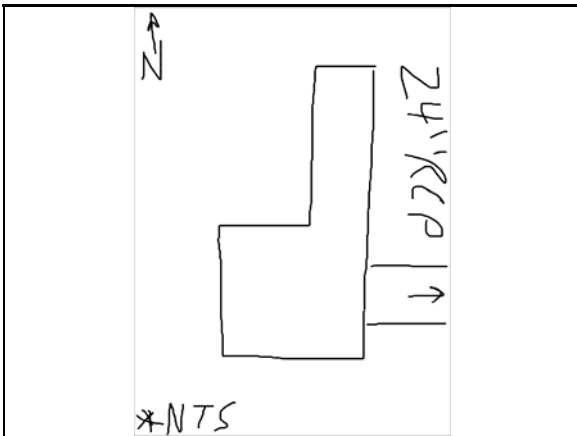
Catch Basin CB-014-331



Location view



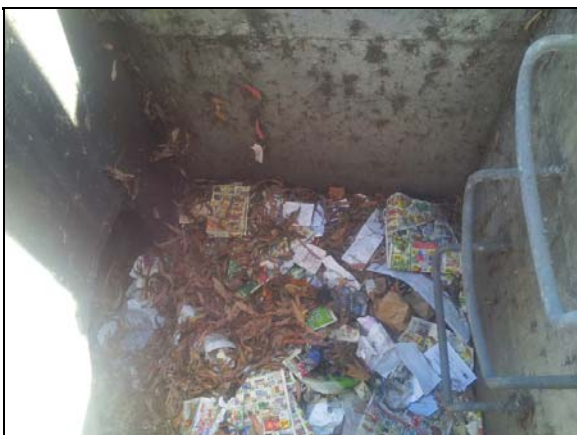
Catch basin



Sketch



View inside catch basin



View inside catch basin



View inside catch basin

SDFA 20 - Esplanade Dr

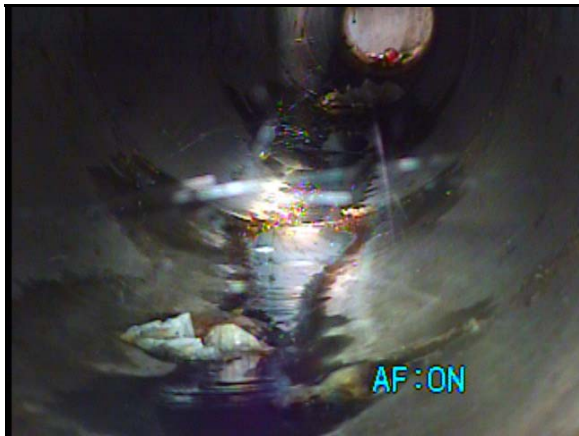
Catch Basin CB-O14-331



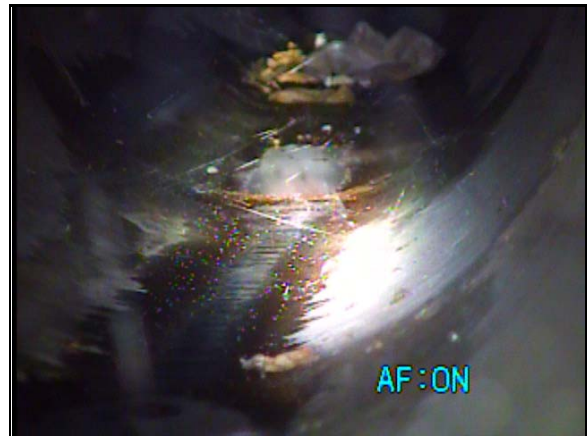
View inside outlet pipe



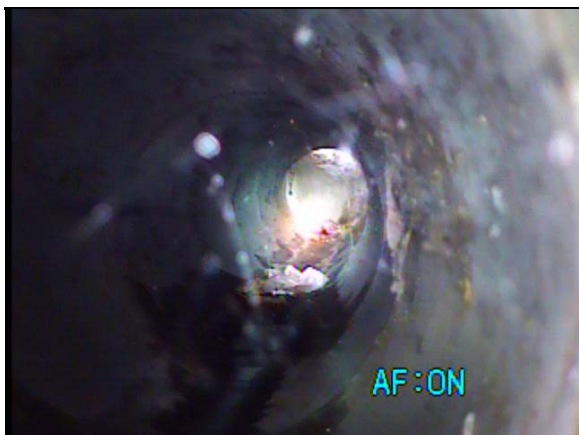
View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe

SDFA 20 - Esplanade Dr

Manhole MH-O14-106

Evaluation date/time: 9/18/2014 5:35 AM
Address/location: Esplanade Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.231403
Longitude: -119.175503
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 5.5
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
Inlet	In	SE	18	CMP	5.5	5	0	None	None	0	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location	Under roadway. Significant corrosion on invert
Outlet	Out	SE	18	CMP	5.5	5	0	None	None	0	Level 4 - Severe/Significant Damage	Level 4 - Poor	Condition/Location	Under roadway. Significant corrosion on invert

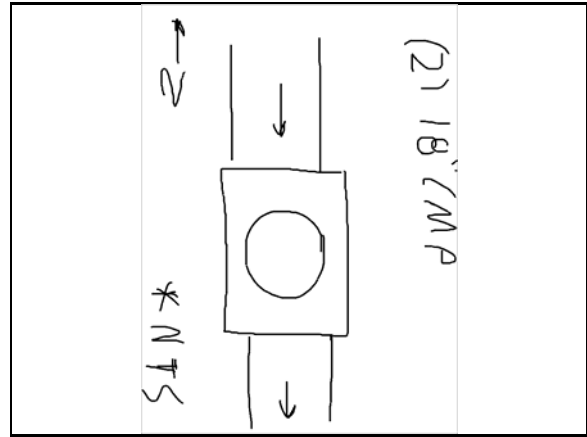
Photos

SDFA 20 - Esplanade Dr

Manhole MH-O14-106



Location view



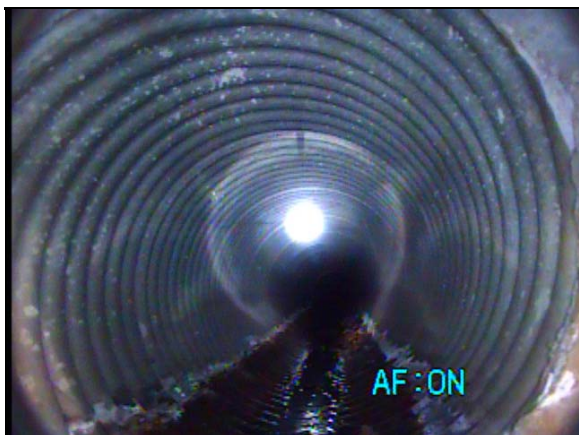
Sketch



View inside manhole



View of outlet



View inside outlet pipe



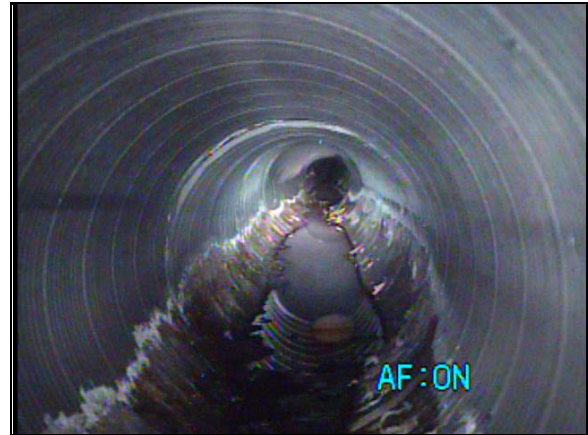
View inside outlet pipe

SDFA 20 - Esplanade Dr

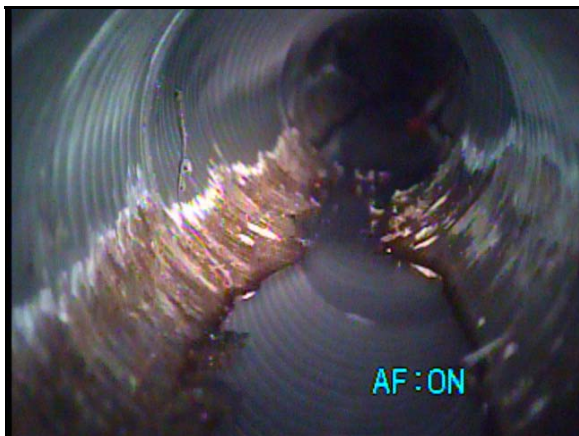
Manhole MH-O14-106



View inside outlet pipe



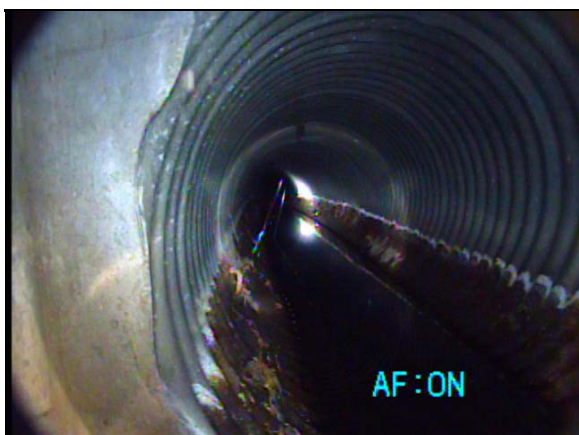
View inside outlet pipe



View inside outlet pipe



View of inlet



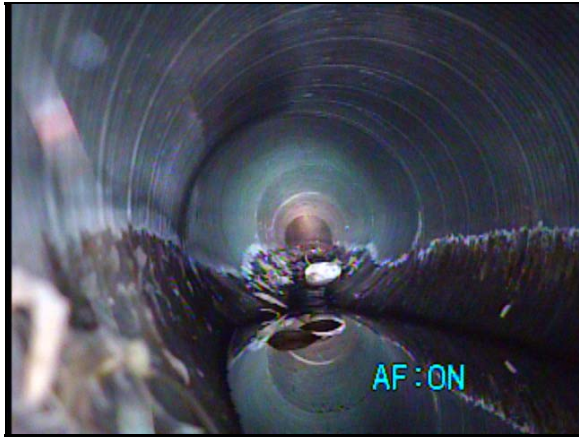
In CMP2



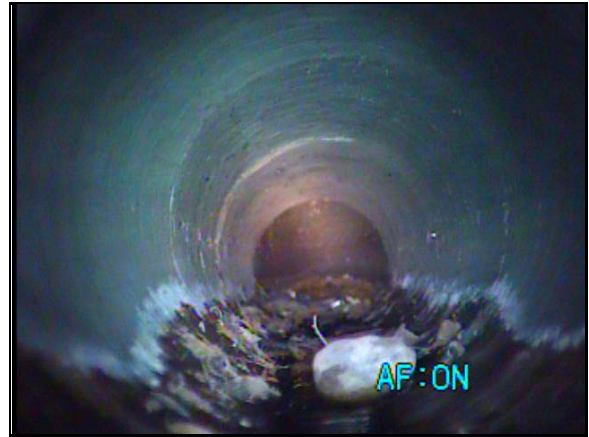
View inside inlet pipe

SDFA 20 - Esplanade Dr

Manhole MH-O14-106



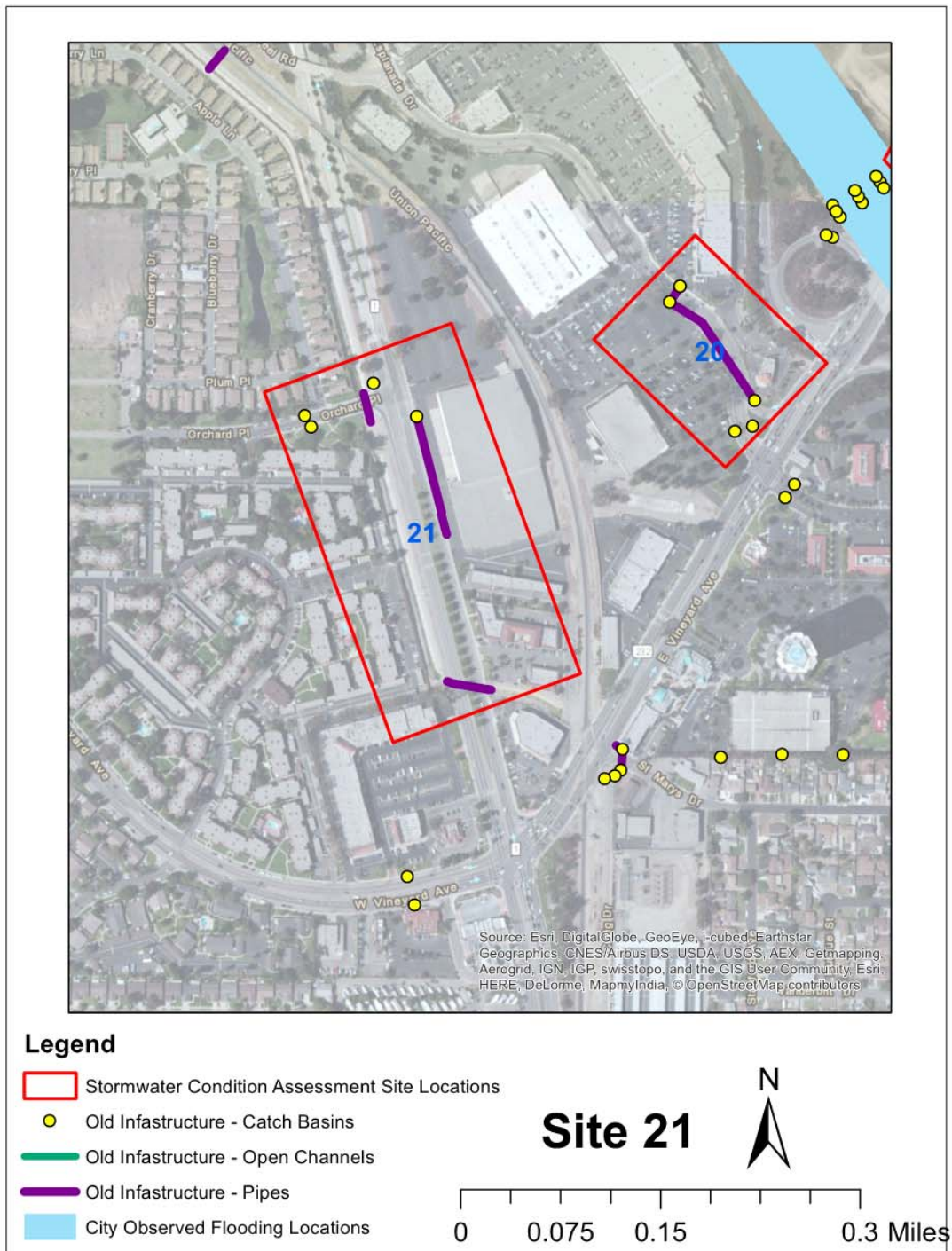
View inside inlet pipe



View inside inlet pipe

SDFA 21 - Pacific Coast Hwy

Area Map



SDFA 21 - Pacific Coast Hwy

Catch Basin CB-N14-301

Evaluation date/time: 9/14/2014 7:23 PM
Address/location: Orchard PI
Map grid reference:
Weather: Dry

General Information

Latitude: 34.230491
Longitude: -119.179709
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.3
Water level (%): 10
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 18-inch RCP.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N14-301_CB-N14-303	Out	S	18	RCP	4.3	0	5	Silt/Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 21 - Pacific Coast Hwy

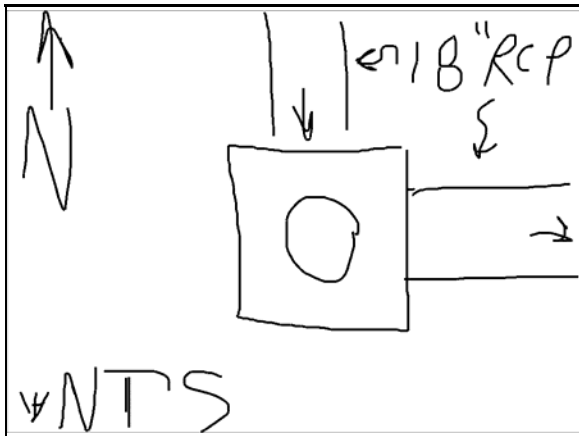
Catch Basin CB-N14-301



Location View



Catch Basin



Sketch



View inside catch basin



View inside catch basin



View inside catch basin

SDFA 21 - Pacific Coast Hwy

Catch Basin CB-N14-301



View of outlet



View inside outlet pipe

SDFA 21 - Pacific Coast Hwy

Catch Basin CB-N14-302

Evaluation date/time: 9/14/2014 6:59 PM
Address/location: Oxnard Blvd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.230072
Longitude: -119.1784
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 0
Devices: Debris/Trash Rack

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Trash/Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 18-inch CMP CR-N14-804_CB-N14-302.

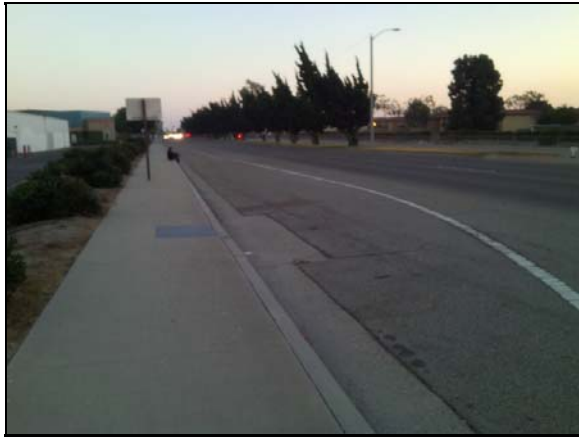
Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-N14-302_CR-N14-804	In	S	12H x 36W	RCB	2.5	0	15	Silt/Vegetation/Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
CR-N14-804_CB-N14-302	Out	S	18	CMP	2.5	0	0	None	None	0	Level 3 - Moderate Damage	Level 3 - Fair	Condition	Under sidewalk.

Photos

SDFA 21 - Pacific Coast Hwy

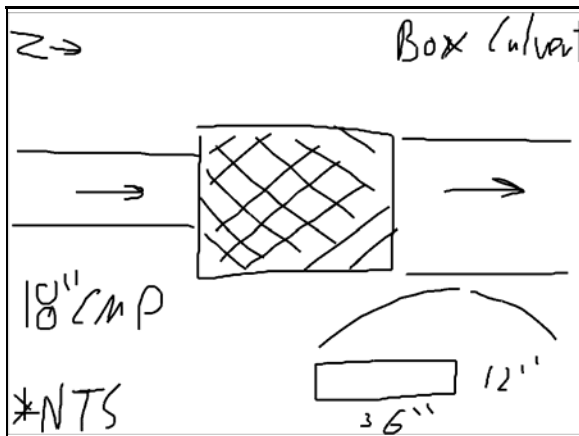
Catch Basin CB-N14-302



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View inside outlet pipe

SDFA 21 - Pacific Coast Hwy

Catch Basin CB-N14-302



View inside inlet pipe



View inside inlet pipe

SDFA 21 - Pacific Coast Hwy

Catch Basin CB-N14-303

Evaluation date/time: 9/14/2014 7:35 PM
Address/location: Orchard PI
Map grid reference:
Weather: Dry

General Information

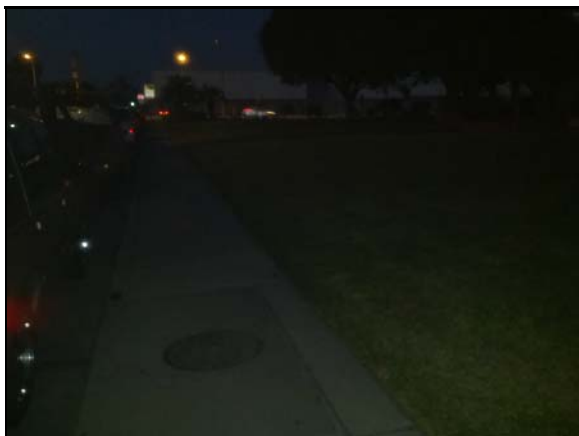
Latitude: 34.230384
Longitude: -119.179602
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3.75
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Photos



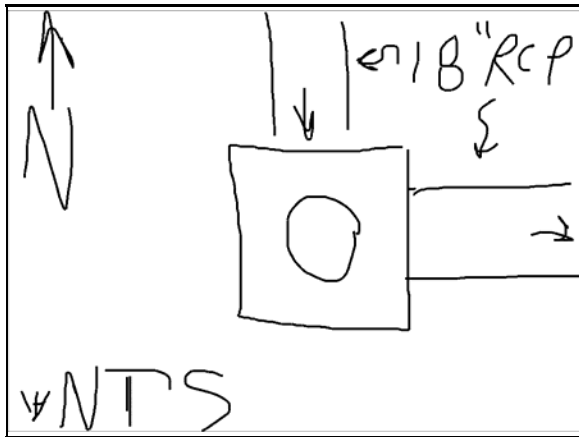
Location view



Catch basin

SDFA 21 - Pacific Coast Hwy

Catch Basin CB-N14-303



Sketch



View inside catch basin



View of outlet



View of inlet

SDFA 21 - Pacific Coast Hwy

Channel JS-N14-505_TS-N14-807

Evaluation date/time: 9/14/2014 7:40 PM
Address/location: E Pacific Coast Hwy north of Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude:
Longitude:
Property type: Public
Access: Poor
Traffic: Heavy
Ground surface type: Ashpalt
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%):
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Unknown
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence:

Notes

Located in heavily congested roadway, unable to access to evalaute. Under roadway.

Photos

SDFA 21 - Pacific Coast Hwy***Culvert CB-N14-300***

Evaluation date/time: 9/14/2014 7:51 PM
 Address/location: Oxnard Blvd
 Map grid reference:
 Weather: Dry

General Information

Latitude: 34.230748
 Longitude: -119.178979
 Property type: Public
 Access: Good
 Traffic: Heavy
 Ground surface type: Asphalt/Grass/Dirt
 Dia./Ht. (in.): 18
 Width (in.):
 Material: CMP
 Grade/rim-invert (ft.): 6
 Water level (%): 0
 Devices: Wingwall(s)

Condition Information and Ratings

Susceptible to burial/overgrowth: No
 Susceptible to ponding/flooding: No
 Sediment/debris depth (%): 5
 Type of sediment/debris: Vegetation/Trash
 Infiltration in structure: None
 Obstruction/deflection: 0.0
 VANDA Condition Rating: Level 1 - No Damage
 Prioritization Rating: Level 1 - Excellent
 Prioritization Rationale: Condition
 Illegal dumping evidence: No

Notes

Inlet at grade. Drains into channel. Loss

Photos

Location view



View of inlet

SDFA 21 - Pacific Coast Hwy

Culvert CB-N14-300



View inside inlet pipe



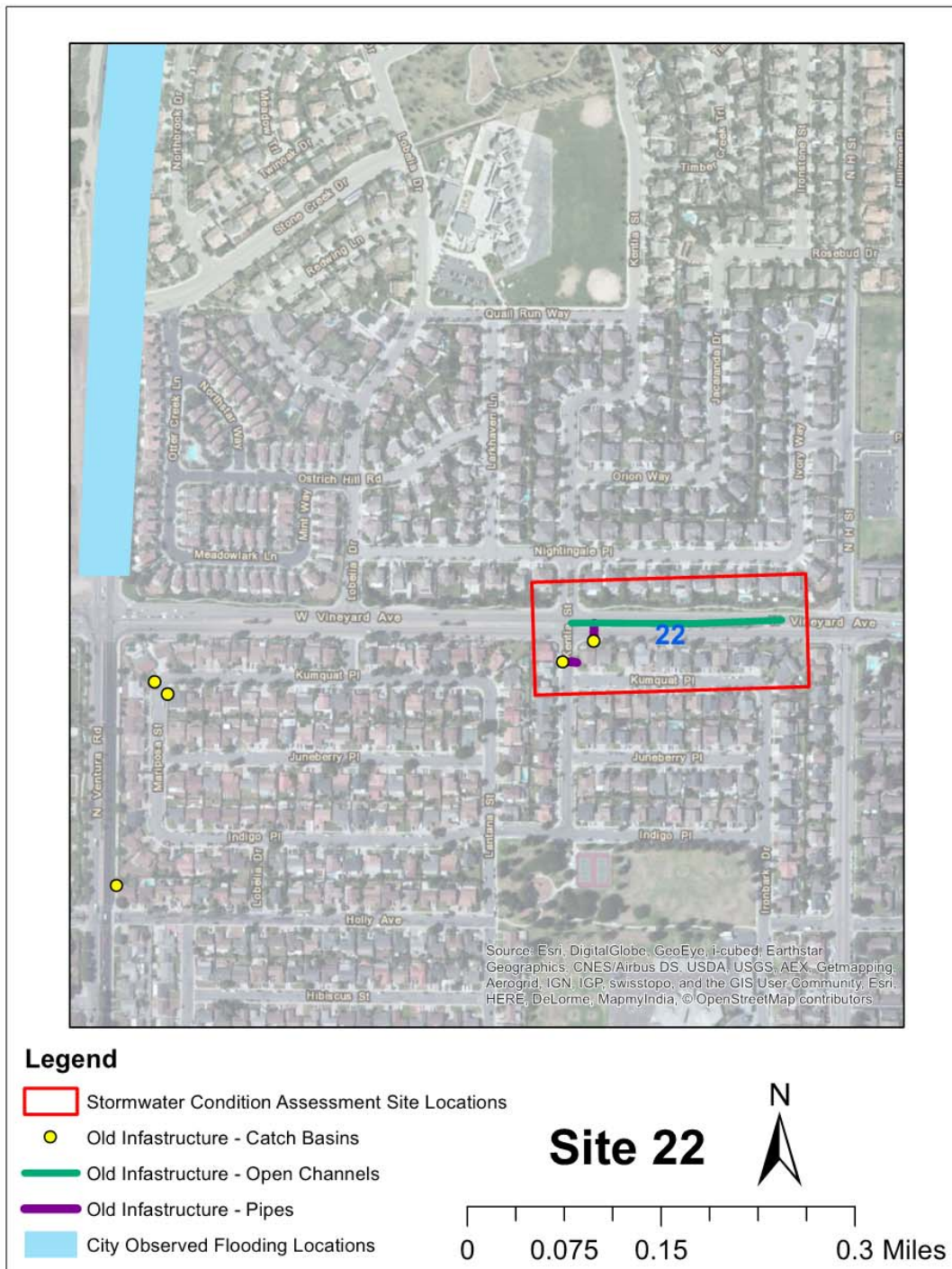
View inside inlet pipe



View of outlet

SDFA 22 - Vineyard Ave

Area Map



SDFA 22 - Vineyard Ave

Catch Basin CB-M14-325

Evaluation date/time: 9/14/2014 6:16 PM
Address/location: W Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.229236
Longitude: -119.189107
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: AsphaltGrass/Dirt
Dia./Ht. (in.): 80
Width (in.): 36
Material: CMP
Grade/rim-invert (ft.): 3
Water level (%): 0
Devices: Wingwall(s)

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 20
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Moderate buildup of debris and trash. Connected to 18H x 30W CMP CB-M14-325_JS-M14-509.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M14-325_JS-M14-509	Out	N	18H x 30W	CMP	3	0	10	Silt/Trash/Veg etation	None	0	Level 1 - No Damage	Level 2 - Good	Condition	Coal tar epoxy coating appears to be in good condition.

Photos

SDFA 22 - Vineyard Ave

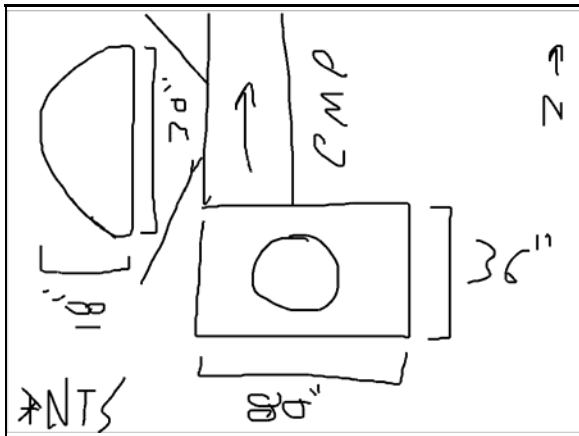
Catch Basin CB-M14-325



Location view



Catch basin



Sketch



View inside catch bath



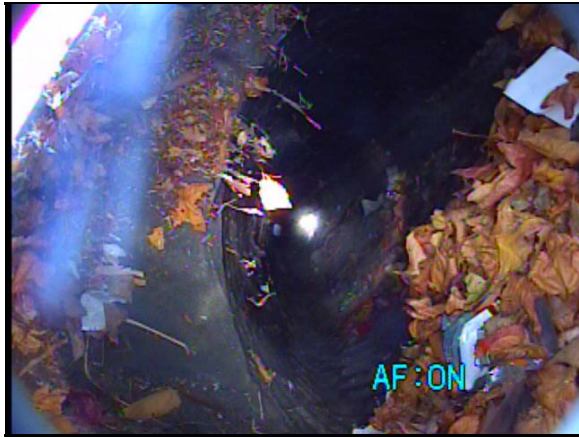
View inside catch basin



View of outlet

SDFA 22 - Vineyard Ave

Catch Basin CB-M14-325



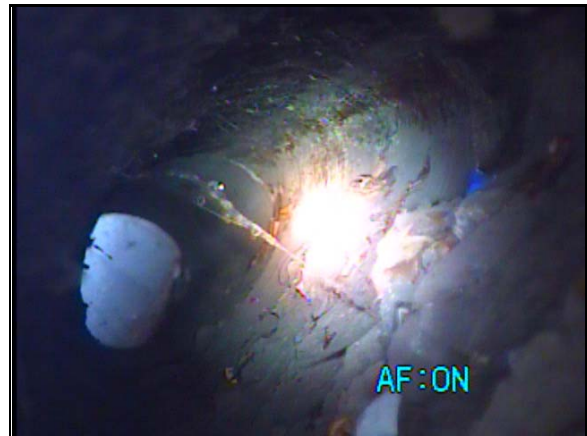
View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe

SDFA 22 - Vineyard Ave

Catch Basin CB-M14-327

Evaluation date/time: 9/14/2014 5:57 PM
Address/location: Kentia St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.228925
Longitude: -119.189343
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 160
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3.1
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Connected to 18H x 30W arched CMP CB-M14-327_MH-M14-108.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-M14-327_MH-M14-108	Out	E	18H x 30W	CMP	3.1	0	10	Silt/Trash/Vegetation	None	0	Level 2 - Minor Damage	Level 2 - Good	Condition	Coal tar epoxy coating missing at various places. Minor surface corrosion.

Photos

SDFA 22 - Vineyard Ave

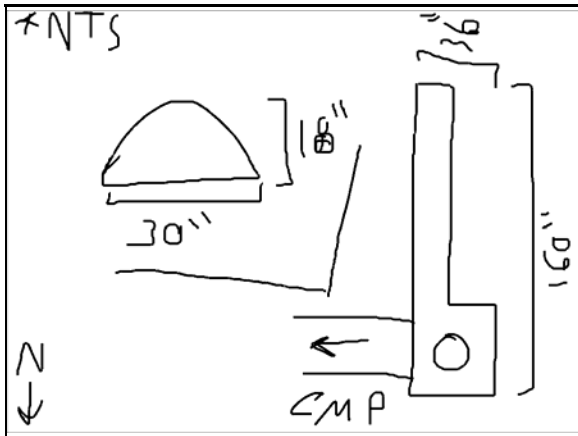
Catch Basin CB-M14-327



Location view



Catch basin



Sketch



View inside catch basin



View of outlet



View inside outlet pipe

SDFA 22 - Vineyard Ave

Catch Basin CB-M14-327



View inside outlet pipe

SDFA 22 - Vineyard Ave

Channel IN-M14-1002_JS-M14-509

Evaluation date/time: 9/17/2014 4:19 PM
Address/location: W Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.229397
Longitude: -119.189129
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%): 0
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Absence
Illegal dumping evidence: No

Notes

Unable to locate open channel. Possibly does not exist or is mislabeled in GIS.

Photos



Location View

SDFA 22 - Vineyard Ave

Channel JS-M14-509_JS-M14-508

Evaluation date/time: 9/17/2014 4:19 PM
Address/location: W Vineyard Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.229397
Longitude: -119.189129
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt
Dia./Ht. (in.): Unknown
Width (in.):
Material: Unknown
Grade/rim-invert (ft.):
Water level (%): 0
Devices: Unknown

Condition Information and Ratings

Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%):
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection:
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Absence
Illegal dumping evidence: No

Notes

Unable to locate open channel. Possibly does not exist or is mislabeled in GIS.

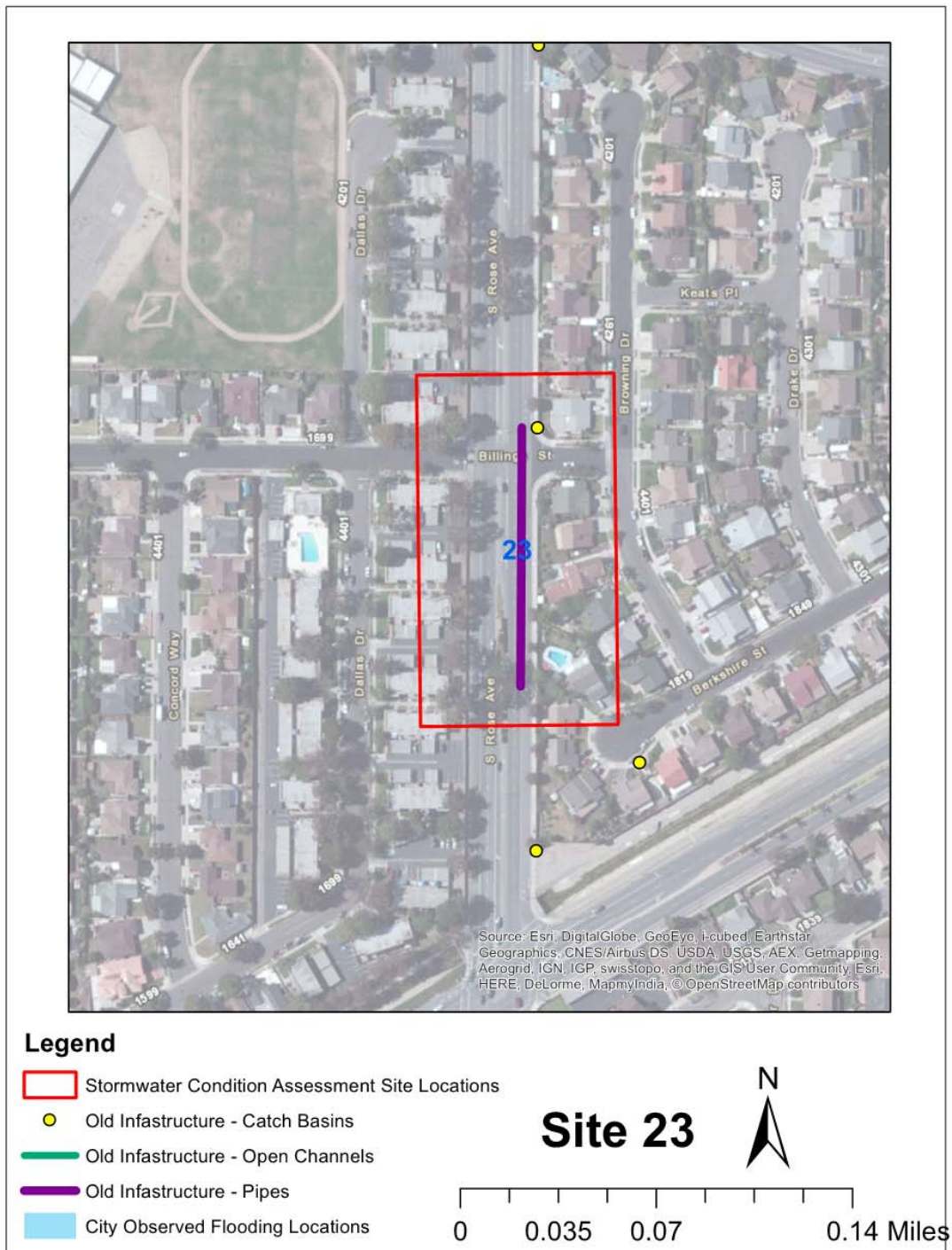
Photos



Location View

SDFA 23 - Rose Ave

Area Map



SDFA 23 - Rose Ave

Catch Basin CB-Q31-300

Evaluation date/time: 9/17/2014 11:08 PM
Address/location: Rose Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.160378
Longitude: -119.159324
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 15
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-Q31-300_JS-Q31-500	Out	W	10	RCP	4	0	25	Vegetation	None	0	Unknown	Level 3 - Fair	Condition/Sediment	Under roadway.

Photos

SDFA 23 - Rose Ave

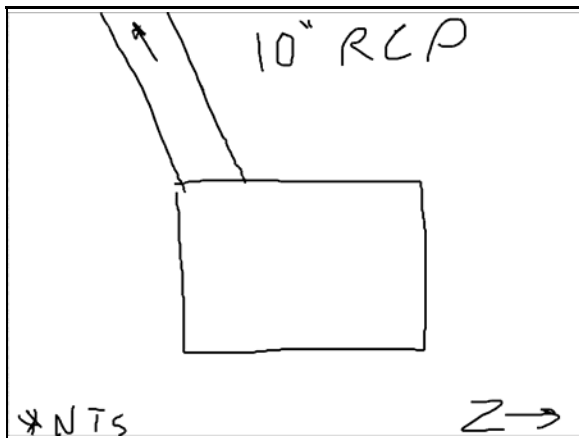
Catch Basin CB-Q31-300



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin

SDFA 23 - Rose Ave

Manhole MH-Q31-102

Evaluation date/time: 9/17/2014 10:44 PM
Address/location: Rose Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.16011
Longitude: -119.159517
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 24
Width (in.):
Material: RCP
Grade/rim-invert (ft.): 10.5
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 0
Type of sediment/debris: None
Infiltration in structure: Stain
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
JS-Q31-500_MH-Q31-102	In	S	48	RCP	10.5	5	0	None	Stain	0	Level 1 - No Damage	Level 2 - Good	Condition/Location	Under roadway.
MH-Q31-102_MH-Q31-104	Out	S	48	RCP	10.5	5	0	None	Stain	0	Level 1 - No Damage	Level 2 - Good	Condition/Location	Under roadway.

Photos

SDFA 23 - Rose Ave

Manhole MH-Q31-102



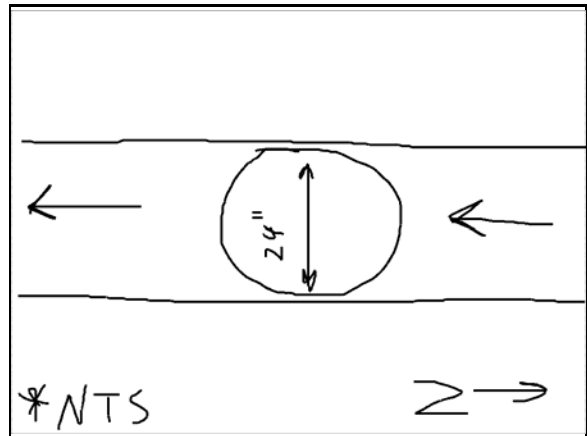
Location view



View inside manhole



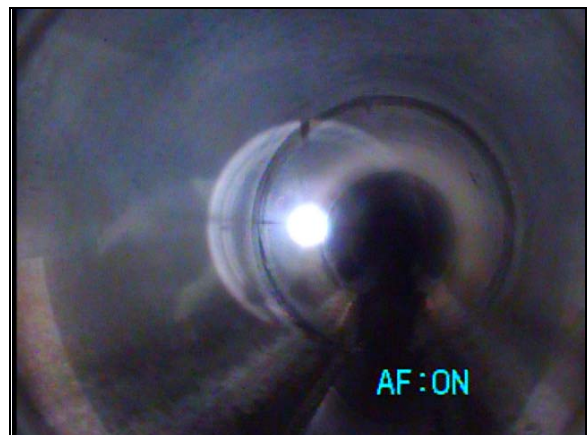
View inside manhole



Sketch



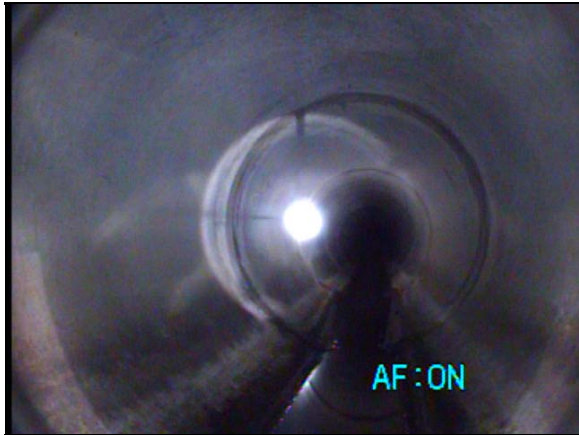
View inside outlet pipe



View inside outlet pipe

SDFA 23 - Rose Ave

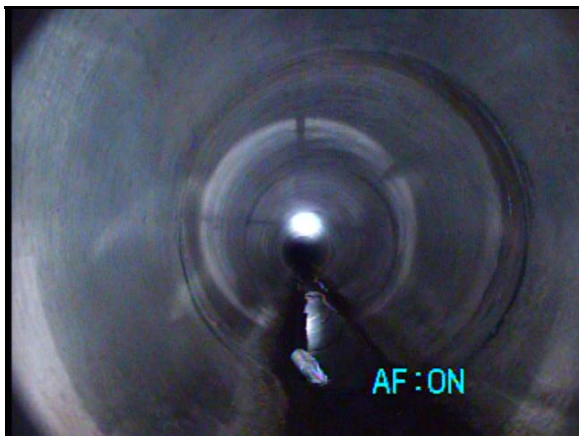
Manhole MH-Q31-102



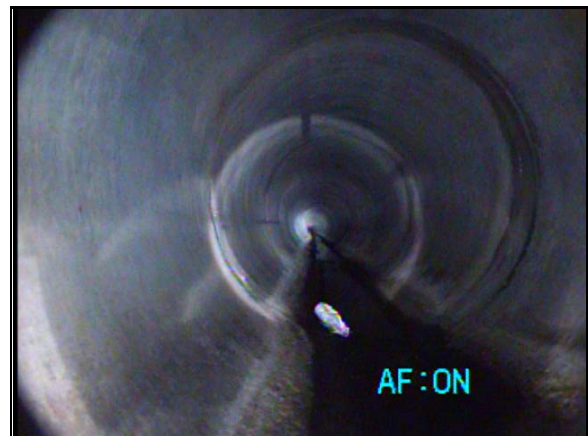
View inside outlet pipe



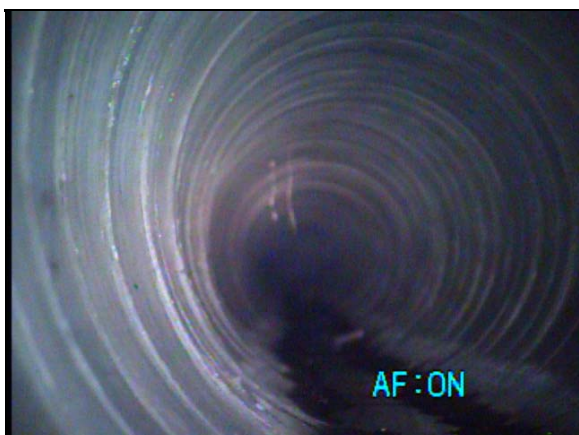
View inside outlet pipe



View inside inlet pipe



View inside inlet pipe



View inside inlet pipe



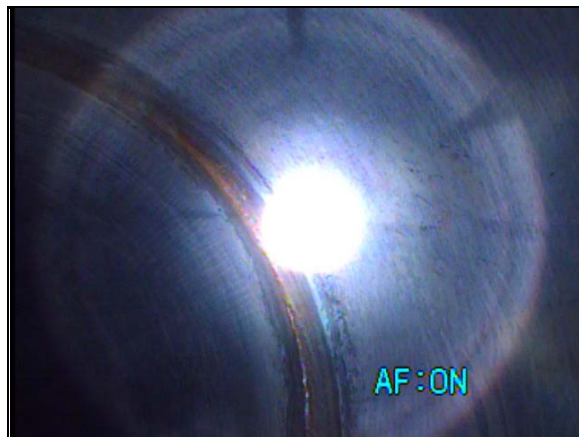
View inside inlet pipe

SDFA 23 - Rose Ave

Manhole MH-Q31-102



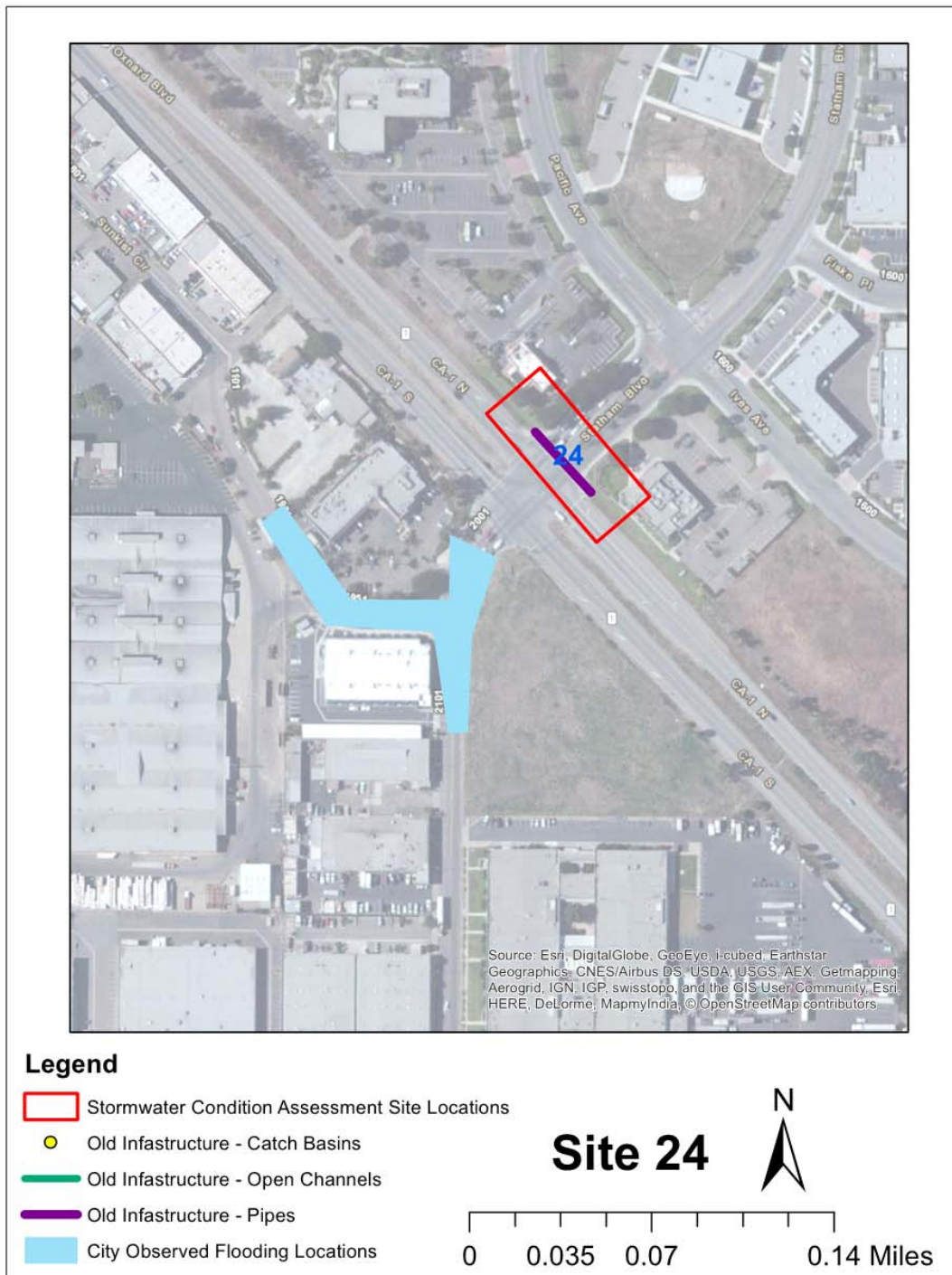
View inside inlet pipe



Infiltration stain

SDFA 24 - Statham Blvd

Area Map



SDFA 24 - Statham Blvd

Culvert HW-P26-801_HW-P26-802

Evaluation date/time: 9/16/2014 5:11 PM
Address/location: Oxnard Blvd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.18028
Longitude: -119.165268
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Grass/Dirt
Dia./Ht. (in.): 10
Width (in.): 16
Material: CMP
Grade/rim-invert (ft.): 2
Water level (%): 0
Devices: Headwall

Condition Information and Ratings

Susceptible to burial/overgrowth: Yes
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 100.0
Type of sediment/debris: Silt/Gravel
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 2 - Minor Damage
Prioritization Rating: Level 5 - Immediate Attention
Prioritization Rationale: Condition/Location/Sediment
Illegal dumping evidence: No

Notes

Pipe is completely blocked at outlet and blocked at least 50% at inlet. Appears to be no exterior corrosion and minor interior corrosion.

Photos

SDFA 24 - Statham Blvd

Culvert HW-P26-801_HW-P26-802



Location view



View upstream



View inside pipe from inlet



View inside pipe from inlet



Location view



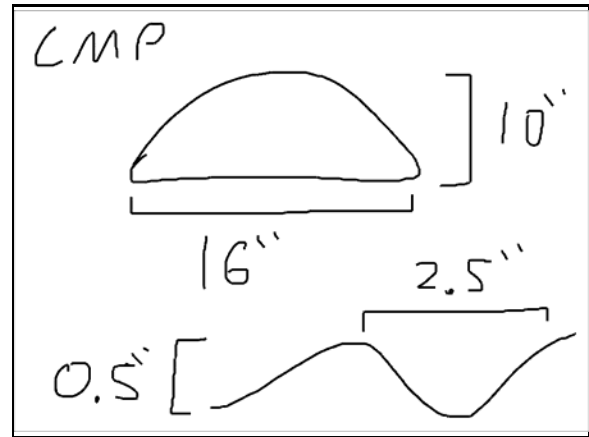
View of outlet

SDFA 24 - Statham Blvd

Culvert HW-P26-801_HW-P26-802



View inside pipe from outlet



Sketch

SDFA 25 - Rose Ave

Area Map



SDFA 25 - Rose Ave

Culvert MH-Q27-103

Evaluation date/time: 9/17/2014 11:43 PM
Address/location: Rose Ave and Oxnard Blvd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.175924
Longitude: -119.159968
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 24
Width (in.):
Material: Concrete
Grade/rim-invert (ft.): 6.7
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

At least 2 inches of sediment

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
MH-Q27-101_MH-Q27-103	In	SW	12	RCP	6.7	0	25	Silt	None	0	Level 1 - No Damage	Level 3 - Fair	Sediment	Under roadway.
MH-Q27-103_MH-Q27-105	In	S	12	VCP	6.7	0	25	Silt	None	0	N/A	Level 3 - Fair	Sediment	Under roadway.

SDFA 25 - Rose Ave

Culvert MH-Q27-103

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
PL-Q27-1200_MH-Q27-103	Out	S	18	RCP	6.7	0	25	Silt	None	0	Level 1 - No Damage	Level 3 - Fair	Sediment	Under roadway.

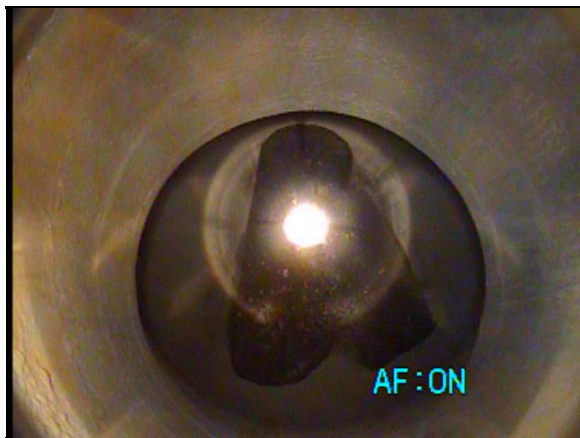
Photos



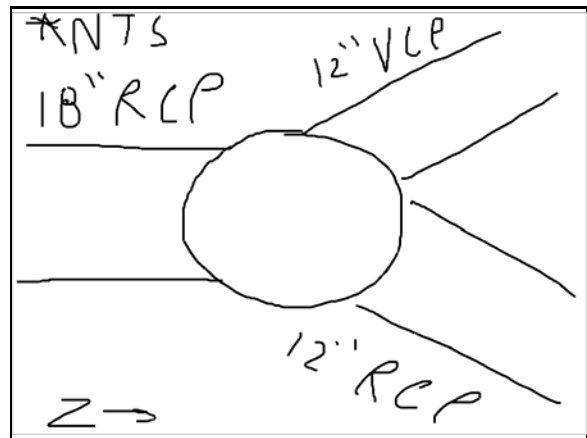
Location view



View inside manhole



View inside manhole



Sketch

SDFA 25 - Rose Ave

Culvert MH-Q27-103



View inside outlet pipe



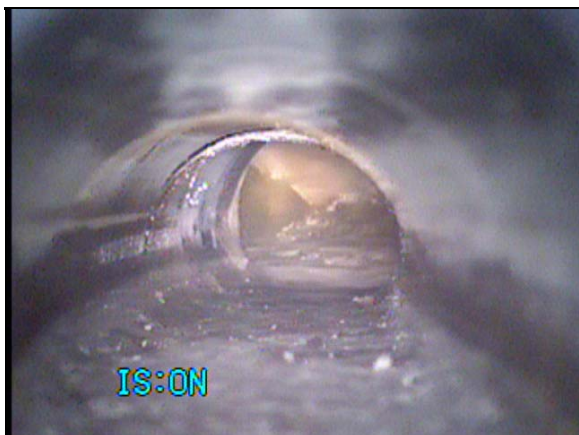
View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



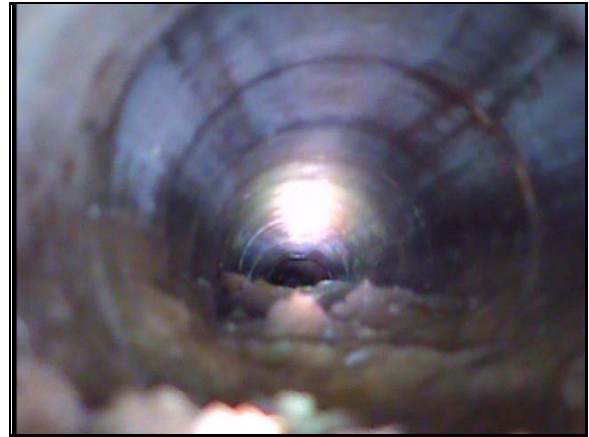
View inside NW inlet pipe

SDFA 25 - Rose Ave

Culvert MH-Q27-103



View inside NW inlet pipe



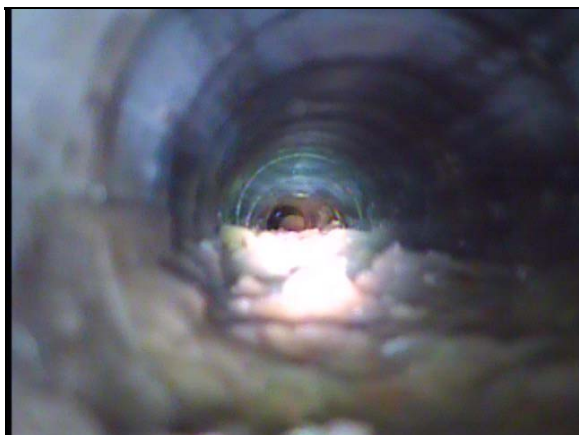
View inside NW inlet pipe



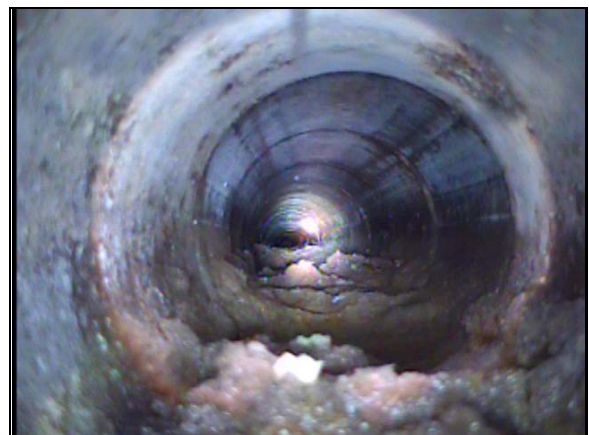
View inside NW inlet pipe



View inside NW inlet pipe



View inside NW inlet pipe



View inside NW inlet pipe

SDFA 25 - Rose Ave

Culvert MH-Q27-103



View inside NE inlet pipe



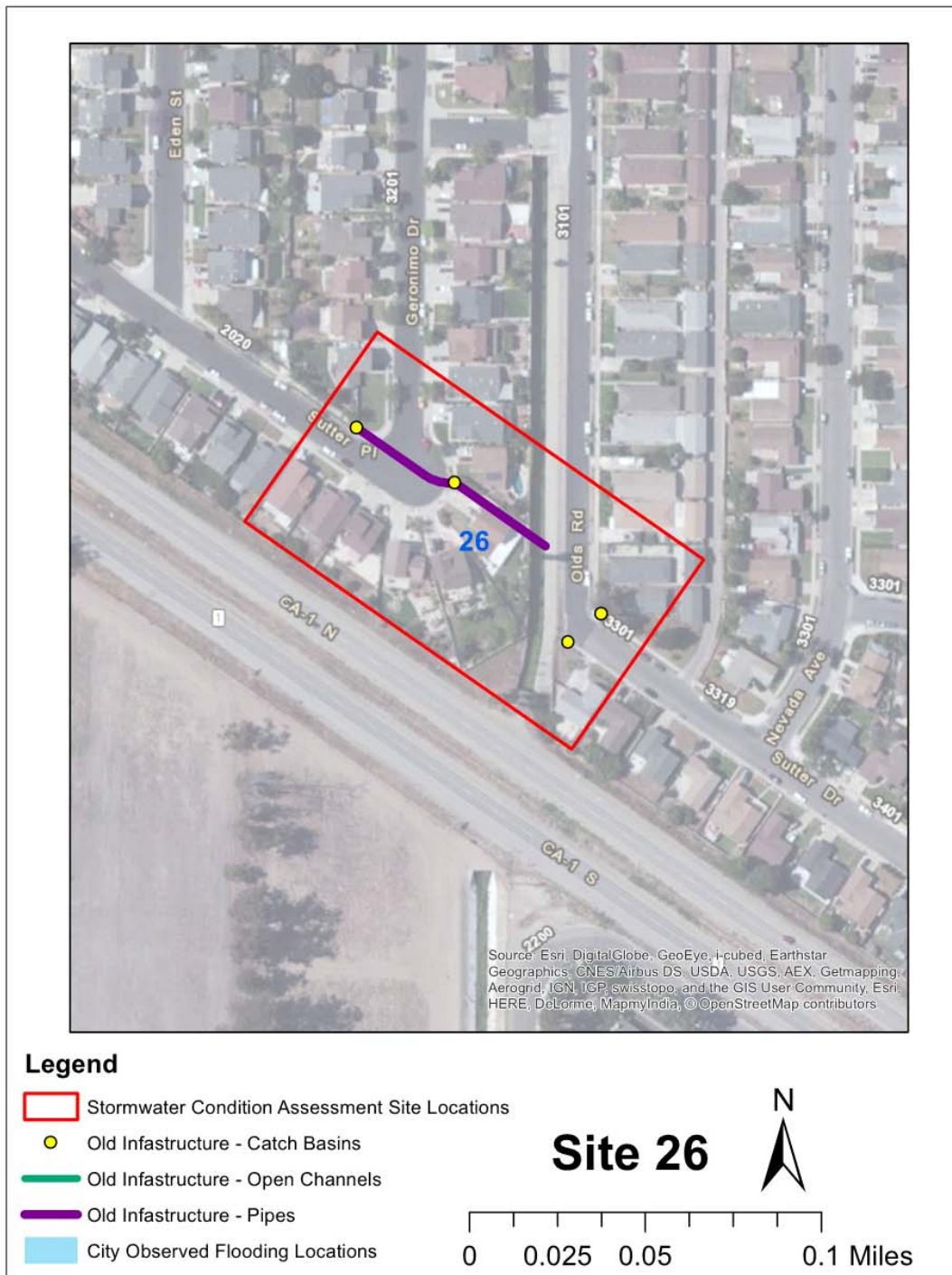
View inside NE inlet pipe



View inside NE inlet pipe

SDFA 26 - Sutter PI

Area Map



SDFA 26 - Sutter PI

Catch Basin CB-R28-304

Evaluation date/time: 9/14/2014 1:54 PM
Address/location: Sutter PI
Map grid reference:
Weather: Dry

General Information

Latitude: 34.170957
Longitude: -119.151986
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 81
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 5
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-R28-304_CB-R28-305	Out	SE	18	RCP	5	0	10	Silt/Vegetation	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 26 - Sutter PI

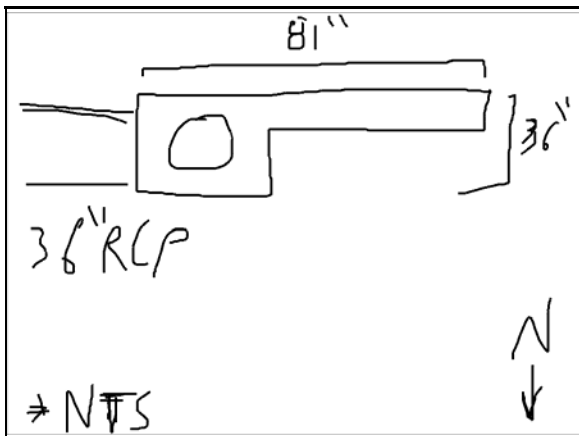
Catch Basin CB-R28-304



Location view



Catch basin



Sketch



View inside catch basin



View of outlet



View inside outlet pipe

SDFA 26 - Sutter PI

Catch Basin CB-R28-305

Evaluation date/time: 9/14/2014 2:21 PM
Address/location: Geronimo Dr
Map grid reference:
Weather: Dry

General Information

Latitude: 34.170839
Longitude: -119.151599
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 4.7
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 50
Type of sediment/debris: Vegetation
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 4 - Poor
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

Significant buildup of leaves and debris.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-R28-304_CB-R28-305	In	SE	18	RCP	4.7	0	10	Silt	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.
CB-R28-305_JS-R28-503	Out	SE	36	RCP	4.7	0	5	Silt/Vegetation/Rock	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under residence.

Photos

SDFA 26 - Sutter PI

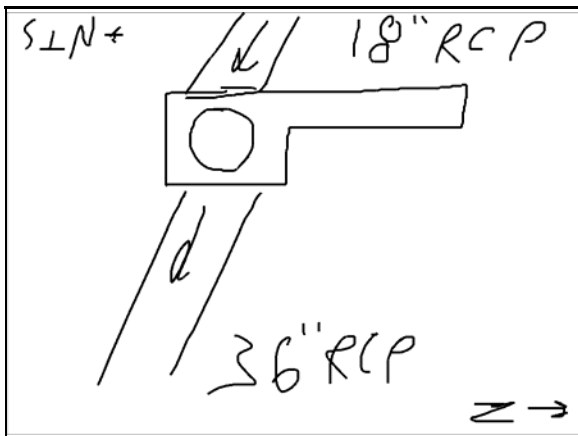
Catch Basin CB-R28-305



Location view



Catch basin



Sketch



View inside catch basin



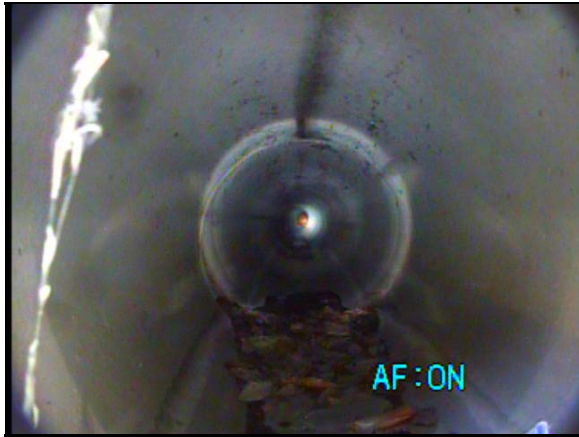
View of outlet



View inside outlet pipe

SDFA 26 - Sutter PI

Catch Basin CB-R28-305



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe



View of inlet



View inside inlet pipe

SDFA 26 - Sutter PI

Catch Basin CB-R28-305



View inside inlet pipe



View inside inlet pipe

SDFA 26 - Sutter PI

Catch Basin CB-R28-306

Evaluation date/time: 9/14/2014 3:10 PM
Address/location: Olds Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.170367
Longitude: -119.151492
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 108
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3.5
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

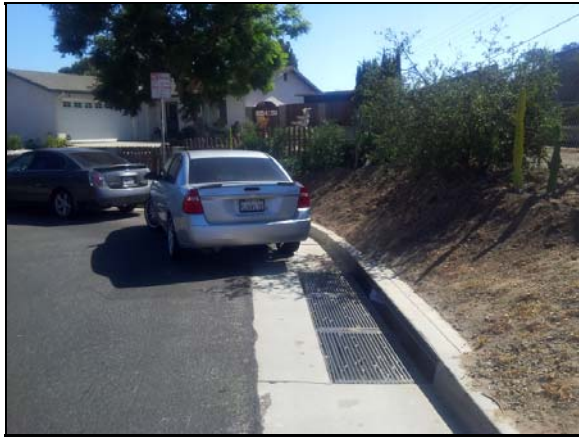
Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-R28-306_JS-R28-504	Out	SW	30	RCP	3.5	0		Unknown	Unknow n		Unknown	Level 2 - Good	Condition	
CB-S28-306_CB-R28-306	In	SW	12	CMP	3.5	0	5	Silt/Vegetation	None	0	Level 3 - Moderate Damage	Level 3 - Fair	Condition/Loc ation	Under roadway. Moderate corrosion on invert.

Photos

SDFA 26 - Sutter PI

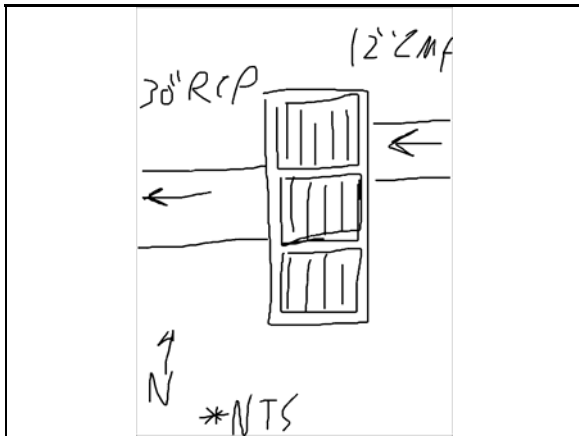
Catch Basin CB-R28-306



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View of outlet

SDFA 26 - Sutter PI

Catch Basin CB-R28-306



View of inlet

SDFA 26 - Sutter PI

Catch Basin CB-S28-306

Evaluation date/time: 9/14/2014 3:01 PM
Address/location: Olds Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.170388
Longitude: -119.151385
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72

Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.7
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 3 - Moderate Damage
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-S28-306_CB-R28-306	Out	SW	12	CMP	2.7	0	5	Silt/Vegetation	None	0	Level 3 - Moderate Damage	Level 3 - Fair	Condition/Location	Under roadway. Moderate corrosion on invert.

Photos

SDFA 26 - Sutter PI

Catch Basin CB-S28-306



Location view



Catch basin



View inside catch basin



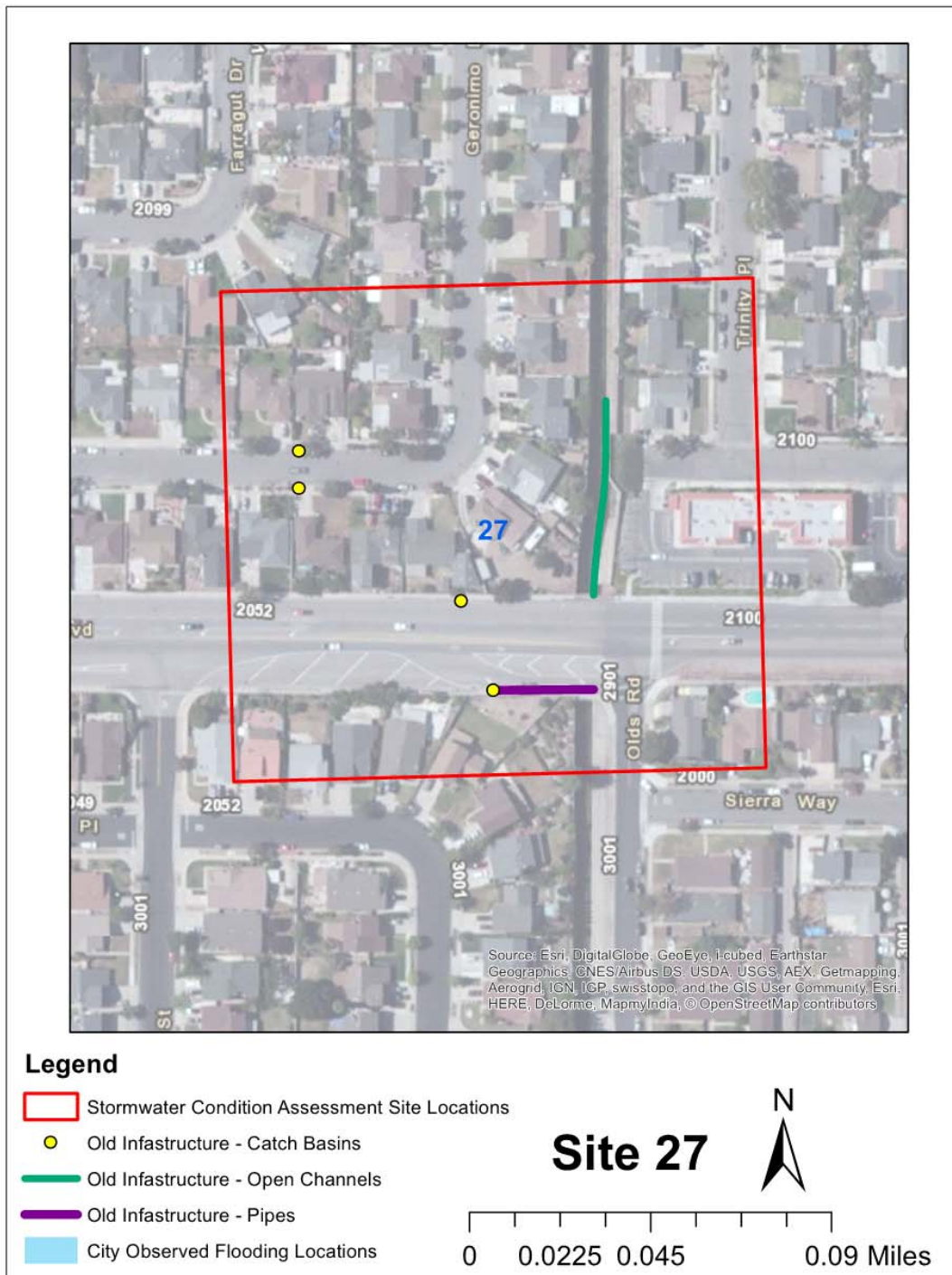
View inside catch basin



View of outlet

SDFA 27 - Channel Islands Blvd

Area Map



SDFA 27 - Channel Islands Blvd

Catch Basin CB-R28-300

Evaluation date/time: 9/14/2014 1:21 PM
Address/location: San Benito St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.173789
Longitude: -119.152458
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3.1
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment. Assessed from manhole connection that drains into MH-R28-101_GB-R28-800.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-R28-301_CB-R28-300	In	N	Unknown	Unknown	3.1	0		Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Location	Under roadway.

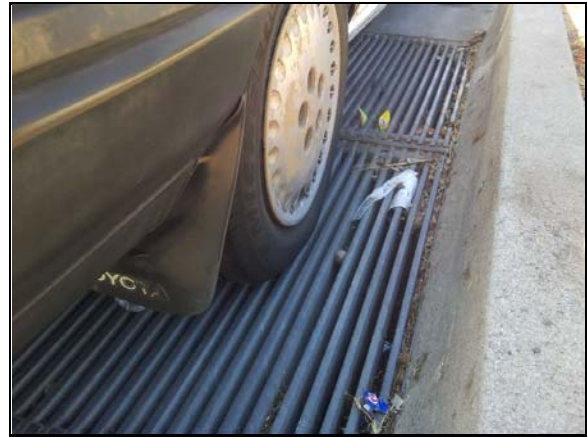
Photos

SDFA 27 - Channel Islands Blvd

Catch Basin CB-R28-300



Location view



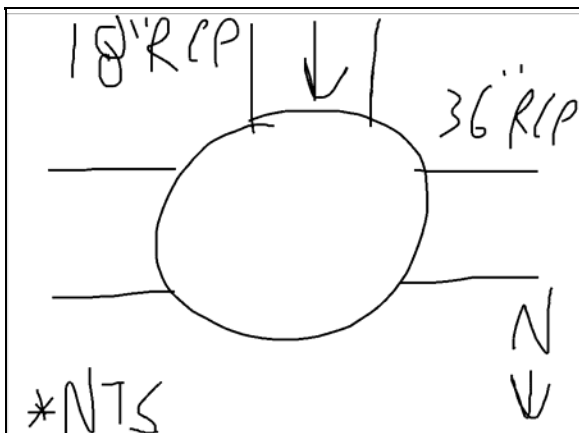
Catch basin



Manhole



View of inlet from catch basin



Sketch

SDFA 27 - Channel Islands Blvd

Catch Basin CB-R28-301

Evaluation date/time: 9/14/2014 1:35 PM
Address/location: Sam Benito St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.173692
Longitude: -119.152415
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-R28-301_CB-R28-300	Out	N	Unknown	Unknown	2.3			Unknown	Unknown		Unknown	Level 3 - Fair	Condition/Location	Under roadway.

Photos

SDFA 27 - Channel Islands Blvd

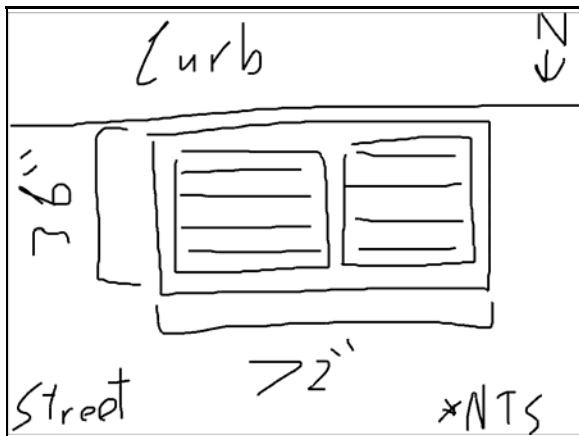
Catch Basin CB-R28-301



Location View



Catch Basin



Sketch

SDFA 27 - Channel Islands Blvd

Catch Basin CB-R28-302

Evaluation date/time: 9/14/2014 12:26 PM
Address/location: E Channel Blvd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.173392
Longitude: -119.151793
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 50
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 4 - Poor
Prioritization Rationale: Sediment/Location
Illegal dumping evidence: No

Notes

Significant buildup of trash and debris.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil- tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-R28-302_MH-R28-104	Out	E	10	RCP	2.3	0	80	Vegetation/Trash	Unknown		Unknown	Level 5 - Immediate Attention	Condition/Sediment	Pipe inlet is filled with trash and debris.

Photos

SDFA 27 - Channel Islands Blvd

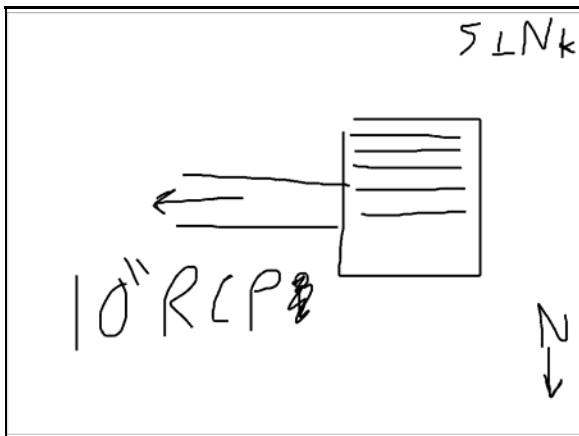
Catch Basin CB-R28-302



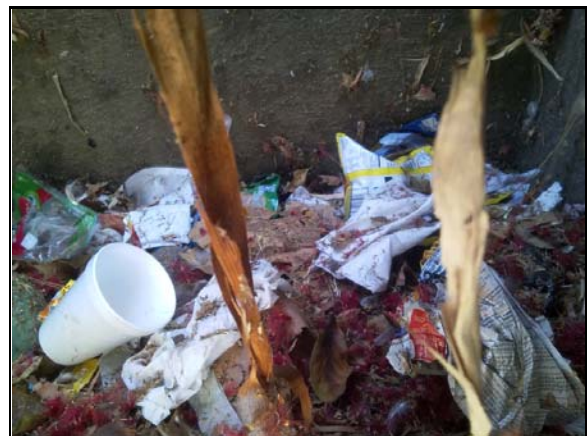
Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View of outlet

SDFA 27 - Channel Islands Blvd

Catch Basin CB-R28-303

Evaluation date/time: 9/14/2014 1:54 PM
Address/location: E Channel Blvd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.170957
Longitude: -119.151986
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.3
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 15
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Connected to 18-inch RCP CB-R28-303_JS-R28-501.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-R28-303_JS-R28-501	Out	E	18	RCP	2.3	0	15	Silt/Vegetation/Trash	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 27 - Channel Islands Blvd

Catch Basin CB-R28-303



Location View



Catch Basin



View inside catch basin



View of outlet



View inside outlet pipe



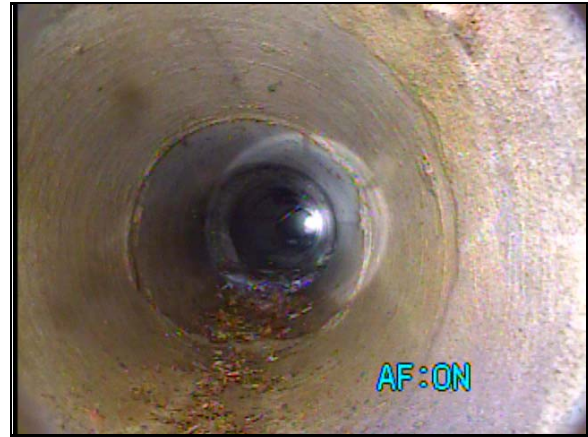
View inside outlet pipe

SDFA 27 - Channel Islands Blvd

Catch Basin CB-R28-303



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe

SDFA 27 - Channel Islands Blvd

Channel JS-R28-500_TS-R28-802

Evaluation date/time: 9/14/2014 1:05 PM
Address/location: E Channel Blvd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.173435
Longitude: -119.15132
Property type: Public
Access: Good
Traffic: None
Ground surface type: Concrete
Dia./Ht. (in.): 144
Width (in.):
Material: Concrete
Grade/rim-invert (ft.): 12
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Photos



Location view



View of channel

SDFA 27 - Channel Islands Blvd

Channel JS-R28-500_TS-R28-802



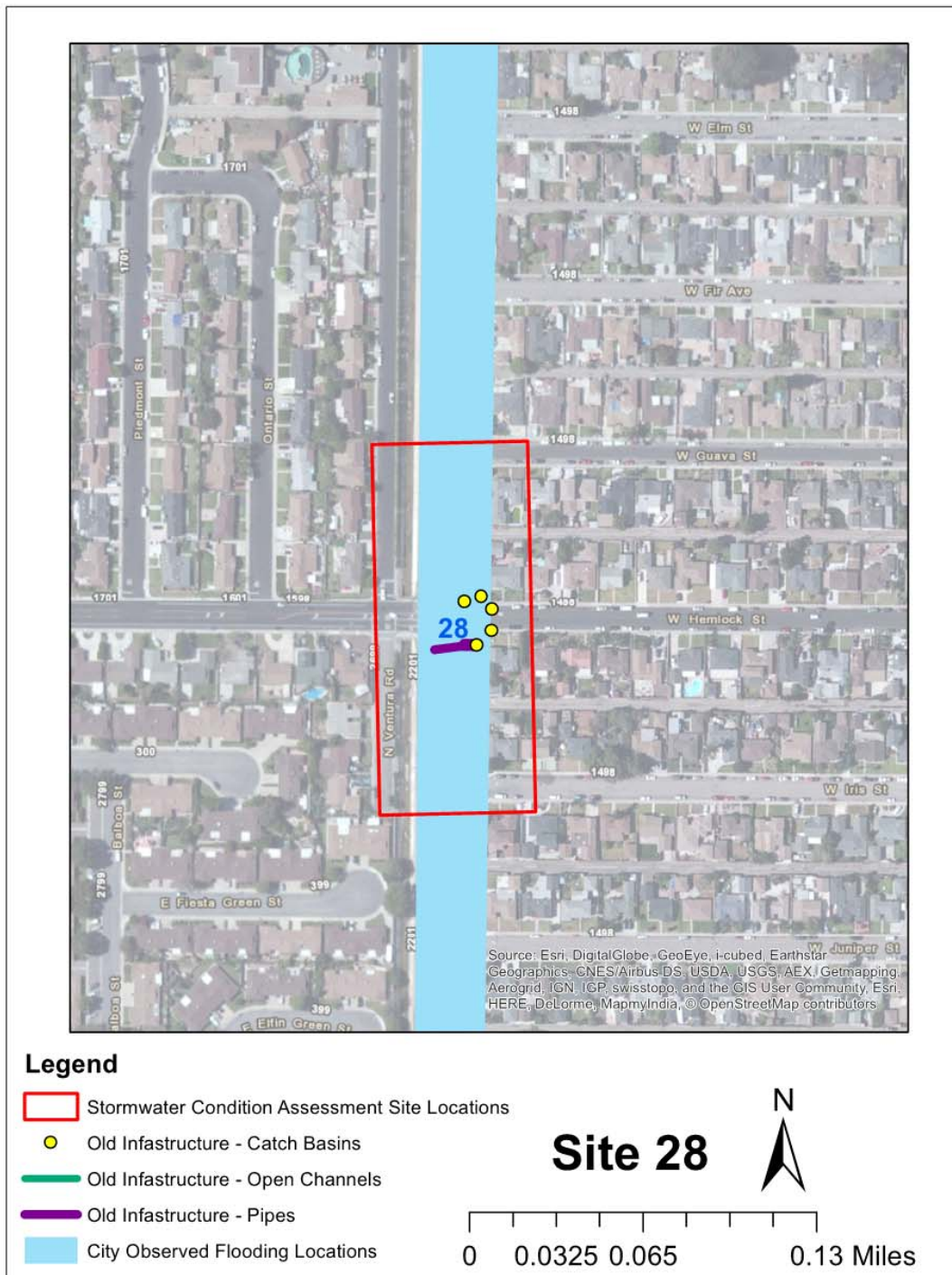
View of channel



View of channel

SDFA 28 - Ventura Rd

Area Map



SDFA 28 - Ventura Rd

Catch Basin CB-L26-302

Evaluation date/time: 9/13/2014 1:28 PM
Address/location: Hemlock St and S Ventura Service Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.181246
Longitude: -119.194815
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 80
Width (in.): 36
Material: N/A
Grade/rim-invert (ft.): 2.1
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 10
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L26-302_JS-L26-500	Out	SW	18	PVC	2.1	0	0	None	None	0	N/A	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 28 - Ventura Rd

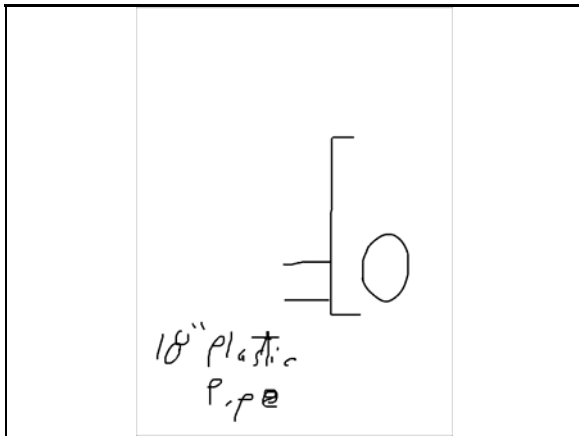
Catch Basin CB-L26-302



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View inside pipe

SDFA 28 - Ventura Rd

Catch Basin CB-L26-303

Evaluation date/time: 9/13/2014 1:51 PM
Address/location: S Ventura Service Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.181213
Longitude: -119.194858
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 96
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.1
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 20
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Unable to remove grate at time of assessment.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L26-303_JS-L26-502	Out	S	12	RCP	2.1	0	5	Silt/Vegetation	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 28 - Ventura Rd

Catch Basin CB-L26-303



Location view



Catch basin



View inside catch basin



View inside catch basin



View of pipe

SDFA 28 - Ventura Rd

Catch Basin CB-L26-306

Evaluation date/time: 9/13/2014 2:01 PM
Address/location: Hemlock St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.18528
Longitude: -119.240048
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 5
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 10
Type of sediment/debris: Silt/Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L26-306_JS-L26-501	Out	S	12	RCP	2.5	0	5	Silt/Vegetation/Trash	None	0	Level 1 - No Damage	Level 2 - Good	Condition/Location	Under roadway.

Photos

SDFA 28 - Ventura Rd

Catch Basin CB-L26-306



Location view



Catch basin



View inside catch basin



View inside catch basin

SDFA 28 - Ventura Rd

Catch Basin CB-L26-308

Evaluation date/time: 9/13/2014 2:10 PM
Address/location: Hemlock St
Map grid reference:
Weather: Dry

General Information

Latitude: 34.181031
Longitude: -119.194772
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 20
Type of sediment/debris: Vegetation/Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infil-tration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L26-308_JS-L26-501	Out	N	12	RCP	2.5	0	0	None	None	0	Level 1 - No Damage	Level 1 - Excellent	Condition	Under roadway.

Photos

SDFA 28 - Ventura Rd

Catch Basin CB-L26-308



Location view



Catch basin



View inside catch basin



View inside catch basin



View inside catch basin



View of outlet

SDFA 28 - Ventura Rd

Catch Basin CB-L26-310

Evaluation date/time: 9/13/2014 2:21 PM
Address/location: S Ventura Service Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.18102
Longitude: -119.194901
Property type: Public
Access: Good

Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.8
Water level (%): 0
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 15
Type of sediment/debris: Silt
Vegetation
Trash
Infiltration in structure: None
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good
Prioritization Rationale: Sediment
Illegal dumping evidence: No

Notes

Moderate silt buildup. Connected to arched CMP CB-L26-310_JS-L26-508.

Pipe Connections

Pipe	Dir.	Hdn g	Dia. (in.)	Mat'l	Rim-inv (ft.)	Wtr Lvl (%)	Sed. (%)	Sed. Type	Infiltration	Obs/Dfl. (%)	VANDA Rating	Priority Rating	Priority Rationale	Notes
CB-L26-310_JS-L26-508	Out	W		CMP	2.8	0	15	Silt/Vegetation/Trash	None	5	Level 3 - Moderate Damage	Level 4 - Poor	Condition/Location	Under roadway.

Photos

SDFA 28 - Ventura Rd

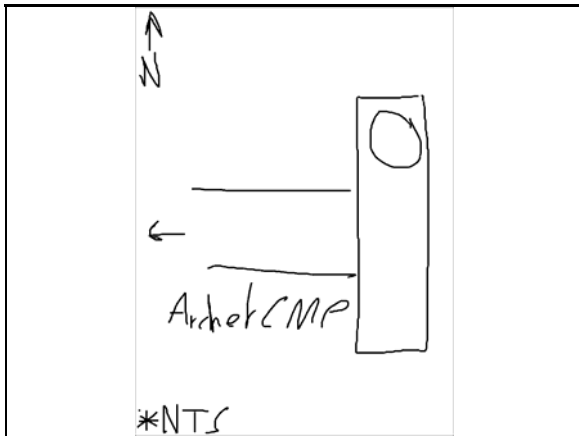
Catch Basin CB-L26-310



Location view



Catch basin



Sketch



View inside catch basin



View inside catch basin



View inside catch basin

SDFA 28 - Ventura Rd

Catch Basin CB-L26-310



View inside outlet pipe



View inside outlet pipe



View inside outlet pipe

SDFA 28 - Ventura Rd***Flood Zone FL 28***

Evaluation date/time: 9/13/2014 1:40 PM
Address/location: S Ventura Service Rd
Map grid reference:
Weather: Dry

General Information

Latitude: 34.181374
Longitude: -119.194901
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt
Dia./Ht. (in.): N/A
Width (in.):
Material: N/A
Grade/rim-invert (ft.):
Water level (%): 0
Devices: N/A

Condition Information and Ratings

Susceptible to burial/overgrowth: N/A
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%):
Type of sediment/debris: N/A
Infiltration in structure: N/A
Obstruction/deflection:
VANDA Condition Rating: N/A
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Other
Illegal dumping evidence: No

Notes

Area has history of flooding.

Photos

Location View

SDFA 29 - Kiddie Beach

Area Map



SDFA 29 - Kiddie Beach

Outfall MH-H31-100_MIS-H31-800

Evaluation date/time: 9/18/2014 12:25 PM
Address/location: S Victoria Ave
Map grid reference:
Weather: Dry

General Information

Latitude: 34.161344
Longitude: -119.222474
Property type: Public
Access: Fair
Traffic: None
Ground surface type: Sand/Rock
Dia./Ht. (in.): 24

Width (in.):
Material: CMP
Grade/rim-invert (ft.): 10
Water level (%): 50
Devices: None

Condition Information and Ratings

Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: Yes
Sediment/debris depth (%): 5
Type of sediment/debris: Sand
Infiltration in structure: Gusher
Obstruction/deflection: 0.0
VANDA Condition Rating: Level 4 - Severe/Significant Damage

Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence: No

Notes

Assessment conducted at low tide. Pipe usually submerged. No signs of corrosion, but CMP does have perforations. Outfall projects 130 inches from rock shore. Water is clear, with no vegetation. Unable to evaluate catch basins due to erosion control devices in place.

Photos

SDFA 29 - Kiddie Beach

Outfall MH-H31-100_MIS-H31-800



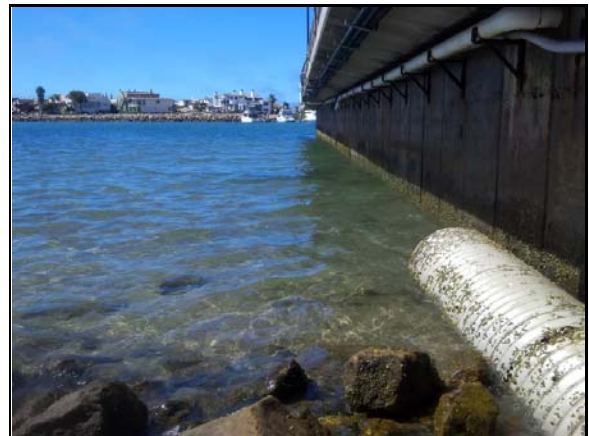
Location view



Location view



View of outfall



View downstream



View of pipe surface



Perforations

SDFA 29 - Kiddie Beach

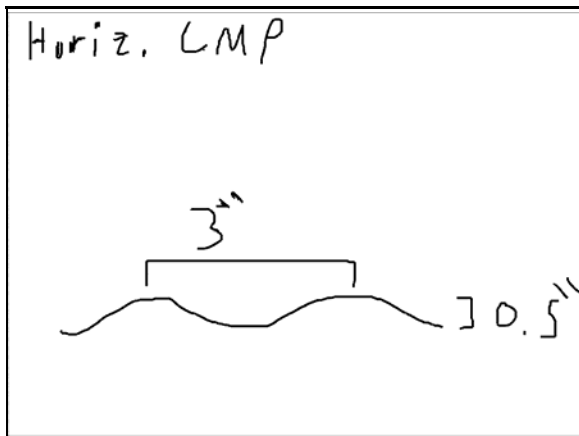
Outfall MH-H31-100_MIS-H31-800



Perforations



View inside outfall



Sketch



Catch basins