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

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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
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>
<thead>
<tr>
<th>Assets</th>
<th>Total Evaluated</th>
<th>System Total</th>
<th>Percent of System Evaluated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipes*</td>
<td>174</td>
<td>11,532</td>
<td>1.5%</td>
</tr>
<tr>
<td>Catch Basins</td>
<td>102</td>
<td>662</td>
<td>15.4%</td>
</tr>
<tr>
<td>Manholes</td>
<td>8</td>
<td>2,010</td>
<td>0.4%</td>
</tr>
<tr>
<td>Channels</td>
<td>13</td>
<td>571</td>
<td>2.3%</td>
</tr>
<tr>
<td>Flood Zones</td>
<td>7</td>
<td>43</td>
<td>16.3%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>304</strong></td>
<td><strong>14,818</strong></td>
<td><strong>2.1%</strong></td>
</tr>
</tbody>
</table>

*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>
<thead>
<tr>
<th>Condition Rating</th>
<th>Description</th>
<th>Representative Photograph</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Level 1</strong></td>
<td>None/Minimal Damage to Concrete</td>
<td><img src="image1" alt="Representative Photograph" /></td>
</tr>
<tr>
<td></td>
<td>Hardness: No Loss</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surface Profile: No Loss</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cracking: Shrinkage Cracks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spalling: None</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reinforcing Steel (Rebar): Not Exposed or Damaged</td>
<td></td>
</tr>
<tr>
<td><strong>Level 2</strong></td>
<td>Damage to Concrete Mortar</td>
<td><img src="image2" alt="Representative Photograph" /></td>
</tr>
<tr>
<td></td>
<td>Hardness: Damage to Concrete Mortar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surface Profile: Some Loss</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cracking: Thumbnail Sized Cracks of Minimal Frequency</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spalling: Shallow Spalling of Minimal Frequency, Related Rebar Damage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reinforcing Steel (Rebar): May Be Exposed but Not Damaged</td>
<td></td>
</tr>
<tr>
<td><strong>Level 3</strong></td>
<td>Loss of Concrete Mortar/Damage to Rebar</td>
<td><img src="image3" alt="Representative Photograph" /></td>
</tr>
<tr>
<td></td>
<td>Hardness: Complete Loss</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surface Profile: Large Diameter Exposed Aggregate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cracking: ¼-inch to ½-inch Cracks, Moderate Frequency</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spalling: Deep Spalling of Moderate Frequency, Related Rebar Damage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reinforcing Steel (Rebar): Exposed and Damaged, Can Be Rehabilitated</td>
<td></td>
</tr>
<tr>
<td><strong>Level 4</strong></td>
<td>Rebar Severely Corroded/Significant Damage to Structure</td>
<td><img src="image4" alt="Representative Photograph" /></td>
</tr>
<tr>
<td></td>
<td>Hardness: Complete Loss</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surface Profile: Large Diameter Exposed Aggregate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cracking: ½-inch Cracks or Greater, High Frequency</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spalling: Deep Spalling at High Frequency, Related Rebar Damage</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reinforcing Steel (Rebar): Damaged or Consumed, Loss of Structural Integrity</td>
<td></td>
</tr>
</tbody>
</table>

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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>
<thead>
<tr>
<th>Condition Rating</th>
<th>Description</th>
<th>Representative Photograph</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Level 1</strong></td>
<td>Little or No Corrosion</td>
<td><img src="image1" alt="Photograph" /></td>
</tr>
<tr>
<td></td>
<td>Loss of Wall Thickness %: None</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pitting Depth (as % of Wall Thickness): None to Minimal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Extent (Area) of Corrosion: None</td>
<td></td>
</tr>
<tr>
<td><strong>Level 2</strong></td>
<td>Minor Surface Corrosion</td>
<td><img src="image2" alt="Photograph" /></td>
</tr>
<tr>
<td></td>
<td>Loss of Wall Thickness %: &lt; 25%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pitting Depth (as % of Wall Thickness): &lt; 25%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Extent (Area) of Corrosion: Localized</td>
<td></td>
</tr>
<tr>
<td><strong>Level 3</strong></td>
<td>Moderate to Significant Corrosion</td>
<td><img src="image3" alt="Photograph" /></td>
</tr>
<tr>
<td></td>
<td>Loss of Wall Thickness %: 25%-75%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pitting Depth (as % of Wall Thickness): 25%-75%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Extent (Area) of Corrosion: 25%-75%</td>
<td></td>
</tr>
<tr>
<td><strong>Level 4</strong></td>
<td>Severe Corrosion; Immediate Repair/Replacement Needed</td>
<td><img src="image4" alt="Photograph" /></td>
</tr>
<tr>
<td></td>
<td>Loss of Wall Thickness %: &gt; 75%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pitting Depth (as % of Wall Thickness): 75% or More</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Extent (Area) of Corrosion: Affects Most or All of Surface</td>
<td></td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Color Code</th>
<th>Rating</th>
<th>Reassessment or Repair Priority</th>
<th>Structural Rating Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>No rating</td>
<td></td>
<td>Not enough information was available to assign a rating.</td>
<td></td>
</tr>
<tr>
<td>1 Excellent</td>
<td>1</td>
<td>Failure unlikely in the foreseeable future. Reassess on a 15-year interval.</td>
<td>Minor or no defects</td>
</tr>
<tr>
<td>2 Good</td>
<td>2</td>
<td>Reassess on a 10-year interval.</td>
<td>Longitudinal Cracking</td>
</tr>
<tr>
<td>3 Fair</td>
<td>3</td>
<td>Reassess on a 5-year interval and consider conducting repairs.</td>
<td>Moderate defects that will continue to deteriorate</td>
</tr>
<tr>
<td>4 Poor</td>
<td>4</td>
<td>Prioritize for rehabilitation within 5 years.</td>
<td>Severe defects</td>
</tr>
<tr>
<td>5 Immediate Attention</td>
<td>5</td>
<td>Repair or replace immediately.</td>
<td>Defect requires immediate action</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Rationale</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condition</td>
<td>The condition of the structure warrants the specified rating level due to likelihood and consequence of asset failure.</td>
</tr>
<tr>
<td>Location</td>
<td>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.</td>
</tr>
<tr>
<td>Sediment/Debris</td>
<td>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.</td>
</tr>
<tr>
<td>Safety</td>
<td>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.</td>
</tr>
<tr>
<td>Absence</td>
<td>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.</td>
</tr>
<tr>
<td>Other</td>
<td>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.</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>S Inlet</td>
<td>CB-P14-300</td>
<td>18</td>
<td>CMP</td>
<td>100</td>
<td>Level 2 - Minor Damage</td>
<td>Level 5 - Immediate Attention</td>
<td>Condition/Sediment</td>
</tr>
<tr>
<td>2</td>
<td>GB-L27-801_MH-L27-100</td>
<td>MH-L27-100</td>
<td>36</td>
<td>CMP</td>
<td>5</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</td>
</tr>
<tr>
<td>2</td>
<td>JS-L27-503_MH-L27-100</td>
<td>MH-L27-100</td>
<td>36</td>
<td>CMP</td>
<td>0</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</td>
</tr>
<tr>
<td>2</td>
<td>MH-L27-100_TS-L27-800</td>
<td>MH-L27-100</td>
<td>18H x 30W</td>
<td>CMP</td>
<td>0</td>
<td>Level 4 - Severe/Significant Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</td>
</tr>
<tr>
<td>3</td>
<td>CB-M27-306</td>
<td>-</td>
<td>36H x 36W</td>
<td>Concrete</td>
<td>50</td>
<td>Level 1 - No Damage</td>
<td>Level 4 - Poor</td>
<td>Sediment/Location</td>
</tr>
<tr>
<td>4</td>
<td>HW-U30-800_JS-U30-502</td>
<td>-</td>
<td>16H x 30W</td>
<td>CMP</td>
<td>15</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</td>
</tr>
<tr>
<td>4</td>
<td>IN-U30-1000_JS-U30-501</td>
<td>-</td>
<td>18H x 24W</td>
<td>CMP</td>
<td>5</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</td>
</tr>
<tr>
<td>7</td>
<td>CB-024-300_MH-024-102</td>
<td>CB-024-300</td>
<td>10H x 18W</td>
<td>CMP</td>
<td>75</td>
<td>Level 1 - No Damage</td>
<td>Level 5 - Immediate Attention</td>
<td>Sediment/Location</td>
</tr>
<tr>
<td>7</td>
<td>CB-024-302_CB-024-300</td>
<td>CB-024-300</td>
<td>10H x 18W</td>
<td>CMP</td>
<td>50</td>
<td>Level 1 - No Damage</td>
<td>Level 4 - Poor</td>
<td>Sediment/Location</td>
</tr>
<tr>
<td>7</td>
<td>CB-P24-301</td>
<td>-</td>
<td>18H x 12W</td>
<td>Concrete</td>
<td>50</td>
<td>Level 1 - No Damage</td>
<td>Level 4 - Poor</td>
<td>Sediment/Location</td>
</tr>
<tr>
<td>----------------</td>
<td>-----------</td>
<td>------------</td>
<td>----------</td>
<td>----------------</td>
<td>--------------</td>
<td>----------------</td>
<td>--------------------</td>
<td></td>
</tr>
<tr>
<td>8 CB-024-310</td>
<td>-</td>
<td>36H x 36W</td>
<td>Concrete</td>
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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.

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<th>Prioritization Rating</th>
<th>Number of Features</th>
<th>Percentage of Features</th>
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<td>8</td>
<td>2.6%</td>
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<tr>
<td>4</td>
<td>29</td>
<td>9.5%</td>
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<tr>
<td>3</td>
<td>84</td>
<td>27.6%</td>
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<tr>
<td>2</td>
<td>54</td>
<td>17.8%</td>
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<tr>
<td>1</td>
<td>129</td>
<td>42.4%</td>
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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

<table>
<thead>
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<th>Amount of Sediment</th>
<th>Number of Features</th>
<th>Percentage of Features</th>
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<td>Significant</td>
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<td>5.6%</td>
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<td>Moderate</td>
<td>18</td>
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<tr>
<td>Minor</td>
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<td>19.7%</td>
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<tr>
<td>Negligible</td>
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<tr>
<td>Other</td>
<td>65</td>
<td>21.4%</td>
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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.

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<td>232</td>
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<td>CB-P29-300</td>
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<td>JS-P29-501_JS-P29-504</td>
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<td>SDFA 19 - Pacific Coast Hwy</td>
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<td>SDFA 22 - Vineyard Ave</td>
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<td>SDFA 26 - Sutter Pl</td>
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<td>JS-R28-500_TS-R28-802</td>
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<td>SDFA 28 - Ventura Rd</td>
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<td>FL 28</td>
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<td>SDFA 29 - Kiddie Beach</td>
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<td>MH-H31-100_MIS-H31-800</td>
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</tbody>
</table>
SDFA 1 - Ventura Blvd

Area Map

Legend
- **Stormwater Condition Assessment Site Locations**
- **Old Infrastructure - Catch Basins**
- **Old Infrastructure - Open Channels**
- **Old Infrastructure - Pipes**
- **City Observed Flooding Locations**

Site 1

Source: GeoData/Globe, GeoEye, Locata, Landstar, LocationOne, NGS, NRC, USDA, USGS, AEX, Esri. Planimetry: CA, OR, Nevada, and the ESRI User Community.
SDFA 1 - Ventura Blvd

**Catch Basin CB-O13-317**

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

### General Information

<table>
<thead>
<tr>
<th>Property type</th>
<th>Access</th>
<th>Traffic</th>
<th>Ground surface type</th>
<th>Diameter (in.)</th>
<th>Width (in.)</th>
<th>Material</th>
<th>Grade/rim-invert (ft.)</th>
<th>Water level (%)</th>
<th>Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>Good</td>
<td>Heavy</td>
<td>Asphalt/Concrete</td>
<td>72</td>
<td>36</td>
<td>Concrete</td>
<td>2.3</td>
<td>0</td>
<td>None</td>
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### Condition Information and Ratings

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

### Notes

Unable to remove grate at time of assessment.

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-O13-317, CB-O13-318</td>
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<td>S</td>
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<td>Unknown</td>
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<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Location</td>
<td>Under roadway,</td>
<td></td>
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</tr>
</tbody>
</table>

### Photos
SDFA 1 - Ventura Blvd

*Catch Basin CB-O13-317*

- Location view
- Catch basin
- View inside catch basin
SDFA 1 - Ventura Blvd

Catch Basin CB-O13-318

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

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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infil-tration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<tbody>
<tr>
<td>CB-O13-317_CB-O13-318</td>
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<td>Unknown</td>
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<td>Unknown</td>
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<td>Unknown</td>
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<td>Condition/Loc</td>
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<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under parking lot.</td>
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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.):** Unknown
- **Material:** Unknown
- **Grade/rim-invert (ft.):** Unknown
- **Water level (%):** Unknown
- **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

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<tr>
<td>Longitude:</td>
<td>Susceptible to ponding/flooding: Unknown</td>
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<tr>
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<tr>
<td>Access:</td>
<td>Type of sediment/debris Unknown</td>
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<tr>
<td>Traffic:</td>
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<td>Ground surface type:</td>
<td>Obstruction/deflection:</td>
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<td>Dia./Ht. (in.):</td>
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<td>Width (in.):</td>
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<tr>
<td>Material:</td>
<td>Prioritization Rationale: Condition/Location</td>
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<td>Grade/rim-invert (ft.):</td>
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<tr>
<td>Water level (%):</td>
<td>Devices: Unknown</td>
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<tr>
<td>Devices:</td>
<td>Unknown</td>
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**Notes**  
Located within freeway off ramp, was not able to access to evaluate.

**Photos**
**SDFA 1 - Ventura Blvd**

*Catch Basin CB-O13-342*

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<td>Weather:</td>
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<th>Condition Information and Ratings</th>
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<td>Latitude:</td>
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<tr>
<td>Longitude:</td>
<td>Susceptible to ponding/flooding: Unknown</td>
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<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%):</td>
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<td>Traffic: Heavy</td>
<td>Infiltration in structure: Unknown</td>
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<td>Ground surface type:</td>
<td>Obstruction/deflection:</td>
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<td>Prioritization Rationale: Condition/Location</td>
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<td>Grade/rim-invert (ft.):</td>
<td>Illegal dumping evidence:</td>
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<td>Devices: Unknown</td>
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**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**  
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  

**Notes**

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infilt-ration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<tbody>
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<td>CB-P14-300_JS-P14-500</td>
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<td>30</td>
<td>CMP</td>
<td>4.2</td>
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<td>5</td>
<td>Silt</td>
<td>None</td>
<td>0</td>
<td>Level 2 - Minor Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Location</td>
<td>Under roadway. Coating missing at various places and minor corrosion on CMP.</td>
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<tr>
<td>E Inlet</td>
<td>In</td>
<td>W</td>
<td>18</td>
<td>CMP</td>
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<td>0</td>
<td>5</td>
<td>Silt</td>
<td>None</td>
<td>0</td>
<td>Level 2 - Minor Damage</td>
<td>Level 2 - Good</td>
<td>Condition</td>
<td>Coating missing at various places and minor corrosion on CMP.</td>
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SDFA 1 - Ventura Blvd

**Catch Basin CB-P14-300**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
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<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>S Inlet</td>
<td>In</td>
<td>N</td>
<td>18</td>
<td>CMP</td>
<td>4.4</td>
<td>0</td>
<td>100</td>
<td>Silt/Gravel/Rock</td>
<td>None</td>
<td>0</td>
<td>Level 2 - Minor Damage</td>
<td>Level 5 - Immediate Attention</td>
<td>Blocked with sediment. Coating missing at various places and minor corrosion on CMP.</td>
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</tbody>
</table>

**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**

<table>
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<th>9/18/2014 11:59 AM</th>
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</thead>
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<tr>
<td>Address/location:</td>
<td>E Vineyard Ave</td>
</tr>
<tr>
<td>Map grid reference:</td>
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<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
</tbody>
</table>

**General Information**

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

**Condition Information and Ratings**

| Susceptible to burial/overgrowth: | Unknown |
| Susceptible to ponding/flooding:  | Unknown |
| Sediment/debris depth (%):        | Unknown |
| Type of sediment/debris:          | Unknown |
| Infiltration in structure:        | Unknown |
| Obstruction/deflection:           | Unknown |
| 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:** Dry  
**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

### Condition Information and Ratings

- **Prioritization Rating:** Level 2 - Good  
- **Prioritization Rationale:** Condition

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg (g)</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-invert (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-L27-306_GB-L27-801</td>
<td>Out W</td>
<td>36</td>
<td>CMP</td>
<td>4.3</td>
<td>5</td>
<td>5</td>
<td>Trash/Vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 4 - Severe/Significant Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Loc</td>
<td>Under roadway.</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

Concrete missing and exposed reinforcing steel at chimney.

### 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: Dry
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 | Dia. (in.) | Mat' | Wtr Lvl (ft.) | Rim-inv (ft.) | Sed. (%) | Sed. Type | Infiltration | 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/Loc/Trash | 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
Storm Drainage Condition Assessment

City of Oxnard

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: Dry
Weather:

General Information

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<td>Access:</td>
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</tr>
<tr>
<td>Traffic:</td>
<td>Night Site</td>
</tr>
<tr>
<td>Ground surface type:</td>
<td>Asphalt</td>
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<tr>
<td>Dia./Ht. (in.):</td>
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<td>Width (in.):</td>
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<tr>
<td>Material:</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>6.4</td>
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<tr>
<td>Water level (%):</td>
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<tr>
<td>Devices:</td>
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Condition Information and Ratings

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<tr>
<td>Susceptible to burial/overgrowth:</td>
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</tr>
<tr>
<td>Susceptible to ponding/flooding:</td>
<td>No</td>
</tr>
<tr>
<td>Sediment/debris depth (%):</td>
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</tr>
<tr>
<td>Type of sediment/debris:</td>
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<tr>
<td>Infiltration in structure:</td>
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<tr>
<td>Obstruction/deflection:</td>
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<td>VANDA Condition Rating:</td>
<td>Level 1 - No Damage</td>
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<tr>
<td>Prioritization Rating:</td>
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<tr>
<td>Prioritization Rationale:</td>
<td>Condition</td>
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<tr>
<td>Illegal dumping evidence:</td>
<td>No</td>
</tr>
</tbody>
</table>

Notes

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>G8-L27-803_MH-L27-100</td>
<td>In</td>
<td>W</td>
<td>36</td>
<td>CMP</td>
<td>6.4</td>
<td>5</td>
<td>5</td>
<td>Gravel/Rock/Trash</td>
<td>None</td>
<td>0</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</td>
<td>Significant corrosion and perforations at invert of all pipes. Under roadway.</td>
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<tr>
<td>JS-L27-503_MH-L27-100</td>
<td>In</td>
<td>S</td>
<td>36</td>
<td>CMP</td>
<td>6</td>
<td>5</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</td>
<td>Significant corrosion and perforations at invert of all pipes. Under roadway.</td>
</tr>
</tbody>
</table>
### 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_T5-L27-800 | Out  | W     | 18H x 30W | CMP   | 6.4           | 5           | 0        | None      | None         | 15           | Level 4 - Severe/Significant Damage | Level 4 - Poor       | Condition/Loc. | 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 (1)**
- **View inside manhole (2)**
- **Sketch**

---

VA Project No.: 14-0195 T01

Appendix A - Asset Inventory
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 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**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/18/2014 2:28 AM</th>
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<td>Channel Islands Blvd and Ventura Rd</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td>Dry</td>
</tr>
<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
</tbody>
</table>

**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.):    | N/A |
| Material:       | N/A |
| Grade/rim-invert (ft.): | 0 |
| Water level (%):| 0 |
| Devices:        | N/A |

**Condition Information and Ratings**

| Susceptible to burial/overgrowth: | No |
| Susceptible to ponding/flooding: | Yes |
| Sediment/debris depth (%):       | Yes |
| Type of sediment/debris          | N/A |
| Infiltration in structure:       | N/A |
| Obstruction/deflection:          | N/A |
| 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

*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

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<th>Description</th>
<th>Value</th>
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<tr>
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<tr>
<td>Property type</td>
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<tr>
<td>Access</td>
<td>Good</td>
</tr>
<tr>
<td>Traffic</td>
<td>Heavy</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt/Concrete</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>2.1</td>
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<tr>
<td>Water level (%)</td>
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</tr>
<tr>
<td>Devices</td>
<td>None</td>
</tr>
</tbody>
</table>

### 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

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

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: Dry
Weather: Weather: Dry

General Information
Latitude: 34.175731
Longitude: -119.186103
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete/S and

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

Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.2
Water level (%): 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

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

Photos
SDFA 3 - J St

*Catch Basin CB-M27-305*

![Location view](image1)

![Catch Basin](image2)

![View inside catch basin](image3)

![View inside outlet pipe](image4)

![View of outlet](image5)
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:** Dry
- **Weather:** 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
- **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 | Infiltration | 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

[Images and tables are not provided in this text format.]
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:** Dry
**Weather:**

### 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

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

### 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: Dry
Weather: Redwood St

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

<table>
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<tr>
<th>Pipe</th>
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<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infil-tration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
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<td>MH-N28-104 JS- M28-502</td>
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<td>W</td>
<td>36</td>
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<td>Level 1 - Excellent</td>
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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

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<td>Traffic:</td>
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<td>Material:</td>
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<td>Grade/rim-invert (ft.):</td>
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Condition Information and Ratings

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<td>Susceptible to burial/overgrowth:</td>
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<td>Obstruction/deflection:</td>
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<td>Prioritization Rating:</td>
<td>Level 1 - Excellent</td>
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<td>Condition</td>
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Notes
Unable to remove grate at time of assessment.

Pipe Connections

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<tr>
<th>Pipe</th>
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<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
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<th>Sed. (%)</th>
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<th>Obs/Dfl. (%)</th>
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<td>SE</td>
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<td>Level 3 - Fair</td>
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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
**Storm Drainage Condition Assessment**  
**City of Oxnard**

### 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

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#### Condition Information and Ratings

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<td>Obstruction/deflection:</td>
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<td>Condition/Location</td>
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<tr>
<td>Illegal dumping evidence:</td>
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**Notes**

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

### Pipe Connections

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<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
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<td>12</td>
<td>RCP</td>
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<td>0</td>
<td>0</td>
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<td>None</td>
<td>0</td>
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<td>Level 3 - Fair</td>
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<td>RCP</td>
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</table>
### SDFA 3 - J St

**Manhole MH-M27-101**

| Pipe | Dir. | Hdn. | 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

---

VA Project No.: 14-0195 T01  
Appendix A - Asset Inventory  
51
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

Channel JS-U30-502_IN-U30-1002

Evaluation date/time: 9/15/2014 5:55 PM
Address/location: Maulhardt Rd
Map grid reference: Dry
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
Latitude: 34.161848 Susceptible to burial/overgrowth: No
Longitude: -119.137051 Susceptible to ponding/flooding: Yes
Property type: Public Sediment/debris depth (%): 0
Access: Fair Type of sediment/debris Silt/Vegetation
Traffic: Light Infiltration in structure: None
Ground surface type: Grass/Dirt Obstruction/deflection: 0.0
Dia./Ht. (in.): 36 VANDA Condition Rating: Level 1 - No Damage
Width (in.): Material: Dirt
Grade/rim-invert (ft.): 2 Prioritization Rating: Level 1 - Excellent
Water level (%): Unknown Illegal dumping evidence: No

Notes

Pipe Connections

<table>
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<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<td>Location</td>
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### SDFA 4 - Maulhardt Rd

**Channel JS-U30-502_IN-U30-1002**

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<th>Sed. (%)</th>
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<td>36</td>
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<td>Silt/Vegetation</td>
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<td>Unknow n</td>
<td>Unkn own</td>
<td>Unknow n</td>
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**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

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<td>Traffic</td>
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Condition Information and Ratings

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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**

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<td>Longitude: -119.137137</td>
<td>Susceptible to ponding/flooding: Yes</td>
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<tr>
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<td>Sediment/debris depth (%): 5</td>
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<td>Access: Good</td>
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**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**

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**General Information**

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<td>Devices:</td>
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**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 image]
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
- **Weather:** Dry

**General Information**

| Latitude:     | 34.138727 |
| Longitude:    | -119.184194 |
| Property type:| Public |
| Access:       | Good |
| Traffic:      | None |
| Ground surface type: | Concrete/Asphalt/Dirt |

**Condition Information and Ratings**

| Diameter (in.): | 145 |
| Width (in.):    | 36 |
| Material:       | Concrete |
| Grade/rim-invert (ft.): | 4 |
| Water level (%): | 100 |
| Devices:        | None |

**Notes**

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

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. g.</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infilt.ration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-N36-301 JS-N36-500</td>
<td>Out</td>
<td>SW</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Other</td>
<td>Area has history of flooding. May be influenced by tide.</td>
<td></td>
</tr>
</tbody>
</table>

### Photos
SDFA 5 - Perkins Rd

*Catch Basin CB-N36-301*

Catch basin

Debris screen

Catch basin flooded

Vault

View inside catch basin
**SDFA 5 - Perkins Rd**

*Catch Basin CB-N36-302*

<table>
<thead>
<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude: 34.138674</td>
<td>Susceptible to burial/overgrowth:</td>
</tr>
<tr>
<td>Longitude: -119.184</td>
<td>Susceptible to ponding/flooding:</td>
</tr>
<tr>
<td>Property type: Private</td>
<td>Sediment/debris depth (%):</td>
</tr>
<tr>
<td>Access: Poor</td>
<td>Type of sediment/debris Unknown</td>
</tr>
<tr>
<td>Traffic: None</td>
<td>Infiltration in structure: Unknown</td>
</tr>
<tr>
<td>Ground surface type: Asphalt/Concrete</td>
<td>Obstruction/deflection:</td>
</tr>
<tr>
<td>Dia./Ht. (in.):</td>
<td>VANDA Condition Rating: Unknown</td>
</tr>
<tr>
<td>Width (in.):</td>
<td>Prioritization Rating: Level 2 - Good</td>
</tr>
<tr>
<td>Material: Unknown</td>
<td>Prioritization Rationale: Absence</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>Devices: Unknown</td>
</tr>
</tbody>
</table>

**Notes**

Unable to locate. May be within condemned area.

**Photos**

Location view

Location view
**SDFA 5 - Perkins Rd**

*Flood Zone FL 5*

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/15/2014 1:55 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address/location:</td>
<td>Perkins Rd</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td>Dry</td>
</tr>
</tbody>
</table>

**General Information**

<table>
<thead>
<tr>
<th>Latitude:</th>
<th>34.138663</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude:</td>
<td>-119.184043</td>
</tr>
<tr>
<td>Property type:</td>
<td>Public</td>
</tr>
<tr>
<td>Access:</td>
<td>Good</td>
</tr>
<tr>
<td>Traffic:</td>
<td>None</td>
</tr>
<tr>
<td>Ground surface type:</td>
<td>Asphalt/Concrete/Grass/Dirt</td>
</tr>
</tbody>
</table>

**Condition Information and Ratings**

<table>
<thead>
<tr>
<th>Susceptible to burial/overgrowth:</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susceptible to ponding/flooding:</td>
<td>Yes</td>
</tr>
<tr>
<td>Sediment/debris depth (%):</td>
<td></td>
</tr>
<tr>
<td>Type of sediment/debris</td>
<td>N/A</td>
</tr>
<tr>
<td>Infiltration in structure:</td>
<td>N/A</td>
</tr>
<tr>
<td>Obstruction/deflection:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dia./Ht. (in.):</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (in.):</td>
<td></td>
</tr>
<tr>
<td>Material:</td>
<td>N/A</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td></td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
</tr>
<tr>
<td>Devices:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Trait</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude:</td>
<td>34.203315</td>
</tr>
<tr>
<td>Longitude:</td>
<td>-119.193614</td>
</tr>
<tr>
<td>Property type:</td>
<td>Public</td>
</tr>
<tr>
<td>Diameter (in.):</td>
<td>120</td>
</tr>
<tr>
<td>Width (in.):</td>
<td>36</td>
</tr>
<tr>
<td>Traffic:</td>
<td>None</td>
</tr>
<tr>
<td>Ground surface type:</td>
<td>Asphalt/Concrete</td>
</tr>
<tr>
<td>Material:</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>2.8</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
</tr>
<tr>
<td>Devices:</td>
<td>None</td>
</tr>
</tbody>
</table>

### 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

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

### 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: Dry
Weather: 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**

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg.</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Dir.</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-L20-320_CB-L21-300</td>
<td>In</td>
<td>S</td>
<td>24</td>
<td>RCP</td>
<td>2.8</td>
<td>0</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 1 - No Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Location</td>
<td>Under residences. Unable to evaluate due to placement within catch basin.</td>
</tr>
<tr>
<td>CB-L21-300_JS-L21-500</td>
<td>Out</td>
<td>W</td>
<td>26H x 54W</td>
<td>RCB</td>
<td>2.8</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td></td>
</tr>
</tbody>
</table>
## SDFA 6 - 2nd St

### Catch Basin CB-L21-300

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

### 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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. (in.)</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Wtr Lvl (%</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs./Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-L21-301_CBL21-300</td>
<td>Out</td>
<td>W</td>
<td>24</td>
<td>RCP</td>
<td>3</td>
<td>0</td>
<td>5</td>
<td>Vegetation/Silt</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
</tr>
<tr>
<td>CB-L21-302_CBL21-301</td>
<td>In</td>
<td>W</td>
<td>24</td>
<td>RCP</td>
<td>3</td>
<td>0</td>
<td>5</td>
<td>Vegetation/Silt</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property type:</th>
<th>Access:</th>
<th>Traffic:</th>
<th>Ground surface type:</th>
<th>Dia./Ht. (in.):</th>
<th>Width (in.):</th>
<th>Material:</th>
<th>Grade/rim-invert (ft.):</th>
<th>Water level (%):</th>
<th>Devices:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>Good</td>
<td>None</td>
<td>Asphalt/Concrete</td>
<td>120</td>
<td>36</td>
<td>Concrete</td>
<td>2.7</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

### Condition Information and Ratings

- **Latitude:** 34.202671
- **Longitude:** -119.192884
- **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 | Infiltration | 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

Legend
- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations

Site 7

0 0.075 0.15 0.3 Miles
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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P23-317, CB-P23-318</td>
<td>Out</td>
<td>S</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknw</td>
<td>Unknown</td>
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<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Absence</td>
<td>Unable to locate.</td>
</tr>
</tbody>
</table>

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: Dry
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.): Unknown
Material: Unknown
Grade/rim-invert (ft.): Unknown
Water level (%): Unknown
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: Unknown
Illegal dumping evidence: Unknown

Notes
Unable to locate.

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P23-318_CB-P23-318</td>
<td>In</td>
<td>S</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Absence</td>
<td>Unable to locate.</td>
<td></td>
</tr>
<tr>
<td>CB-P23-318_CB-P24-300</td>
<td>Out</td>
<td>S</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
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<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Absence</td>
<td>Unable to locate.</td>
<td></td>
</tr>
</tbody>
</table>

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: Dry
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.): Unknown
Material: Unknown
Grade/rim-invert (ft.): Unknown
Water level (%): Unknown
Devices: Unknown

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

Notes
Unable to locate.

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P23-318_CB-P24-300</td>
<td>In</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Absence</td>
<td>Unable to locate.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CB-P24-300_CB-P24-307</td>
<td>Out</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Absence</td>
<td>Unable to locate.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## SDFA 7 - Wooley Rd

### Catch Basin CB-P24-300

| Pipe | Dir. | Hdn. g | Dia. (in.) | Mat'l | Rim-inv | Wtr Lvl (ft.) | Sed. (%) | Sed. Type | Infiltration | Obs/Dfl. (%) | VANDA Rating | Priority Rating | Priority Rationale | Notes                  |
|------|------|--------|------------|-------|---------|---------------|----------|-----------|-------------|---------------|---------------|----------------|-----------------|-------------------|----------------------|
| CB-Q24-300_CB-P24-300 | In   | S      | Unknown    | Unknown | Unknown | Unknown       | Unknown  | Unknown   | Unknown     | Unknown       | Level 3 - Fair | Absence        | Unable to locate.          |

### Photos

![Location view](image-url)

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**

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

**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**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn (g)</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P24-301, CB-P24-303</td>
<td>Out</td>
<td>S</td>
<td>4</td>
<td>CAS</td>
<td>0.5</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under parking lot.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Property type:</th>
<th>Public</th>
<th>Access:</th>
<th>Good</th>
</tr>
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<tbody>
<tr>
<td>Traffic:</td>
<td>None</td>
<td>Ground surface type:</td>
<td>Concrete</td>
</tr>
<tr>
<td>Dia./Ht. (in.):</td>
<td>18</td>
<td>Diameter:</td>
<td>N/A</td>
</tr>
<tr>
<td>Width (in.):</td>
<td>12</td>
<td>Grade/rim-invert (ft.):</td>
<td>1.9</td>
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<tr>
<td>Material:</td>
<td>N/A</td>
<td>Grade/rim-invert (ft.):</td>
<td>1.9</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>1.9</td>
<td>Water level (%):</td>
<td>0</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
<td>Devices:</td>
<td>None</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P24-301_CBP24-303</td>
<td>In</td>
<td>S</td>
<td>4</td>
<td>CAS</td>
<td>1.1</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under parking lot.</td>
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<tr>
<td>CB-P24-303_JSP24-502</td>
<td>Out</td>
<td>S</td>
<td>8</td>
<td>RCP</td>
<td>1.9</td>
<td>0</td>
<td>5</td>
<td>Vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under parking lot.</td>
</tr>
</tbody>
</table>

Photos
SDFA 7 - Wooley Rd

Catch Basin CB-P24-303

Location view

Catch basin

View inside catch basin

View inside inlet pipe

View inside outlet pipe

Sketch
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: Dry
Weather: 

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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn.</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P24-300_CB-307_In  S</td>
<td>18</td>
<td>RCP</td>
<td>4.9</td>
<td>0</td>
<td>Vegetation/Trash</td>
<td>5</td>
<td></td>
<td></td>
<td>None</td>
<td>0</td>
<td>Level 1-No Damage</td>
<td>Level 1-Excellent</td>
<td>Condition</td>
<td></td>
</tr>
<tr>
<td>CB-P24-307_JS-P24-502_Out W</td>
<td>18</td>
<td>RCP</td>
<td>4.9</td>
<td>0</td>
<td>Vegetation/Trash</td>
<td>5</td>
<td></td>
<td></td>
<td>None</td>
<td>0</td>
<td>Level 1-No Damage</td>
<td>Level 1-Excellent</td>
<td>Condition</td>
<td>2</td>
</tr>
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</table>

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**

<table>
<thead>
<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
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<tr>
<td>Latitude: 34.190472</td>
<td>Susceptible to burial/overgrowth: N/A</td>
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<td>Longitude: -119.16383</td>
<td>Susceptible to ponding/flooding: N/A</td>
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<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%): N/A</td>
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<tr>
<td>Access: Good</td>
<td>Type of sediment/debris: N/A</td>
</tr>
<tr>
<td>Traffic: None</td>
<td>Infiltration in structure: N/A</td>
</tr>
<tr>
<td>Ground surface type: Asphalt</td>
<td>Obstruction/deflection:</td>
</tr>
<tr>
<td>Dia./Ht. (in.): N/A</td>
<td>VANDA Condition Rating: N/A</td>
</tr>
<tr>
<td>Width (in.): N/A</td>
<td>Prioritization Rating: Level 2 - Good</td>
</tr>
<tr>
<td>Material: N/A</td>
<td>Prioritization Rationale: Absence</td>
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<tr>
<td>Grade/rim-invert (ft.): 0</td>
<td>Illegal dumping evidence: No</td>
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<td>Water level (%): 0</td>
<td></td>
</tr>
<tr>
<td>Devices:</td>
<td></td>
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</table>

**Notes**
- Does not exist.

**Photos**

- Location View

---

VA Project No.: 14-0195 T01
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: Dry

Weather:

General Information

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<tr>
<td>Longitude</td>
<td>-119.164839</td>
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<tr>
<td>Property type</td>
<td>Public</td>
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<tr>
<td>Access</td>
<td>Good</td>
</tr>
<tr>
<td>Traffic</td>
<td>Night Site</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Material</td>
<td>RCP</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>8</td>
</tr>
<tr>
<td>Water level (%)</td>
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</tr>
<tr>
<td>Devices</td>
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Condition Information and Ratings

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

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn (g)</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MH-P23-107_MH-P24-103</td>
<td>In</td>
<td>S</td>
<td>30</td>
<td>RCP</td>
<td>8</td>
<td>5</td>
<td>5</td>
<td>Silt/Rock</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>MH-P24-103_J5_P24-504</td>
<td>Out</td>
<td>W</td>
<td>36</td>
<td>RCP</td>
<td>8</td>
<td>5</td>
<td>10</td>
<td>Silt/Gravel/Trash</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

Photos
SDFA 7 - Wooley Rd

Manhole MH-P24-103

Location view

View inside manhole

View of outlet

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

Legend
- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations

Site 8

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

HRFB Data and Map Copyright © OpenStreetMap Contributors

Appendix A - Asset Inventory
SDFA 8 - Wooley Rd

Catch Basin CB-O24-300

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

Notes
Connected to two 10H x 18W CMP.

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infil-tration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-O24-300_OH-O24-T02</td>
<td>Out</td>
<td>S</td>
<td>10H x 18W</td>
<td>CMP</td>
<td>1.1</td>
<td>0</td>
<td>75</td>
<td>Trash/Vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 5 - Immediate Attention</td>
<td>Sediment/Loc.</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>CB-O24-302_CB-O24-300</td>
<td>In</td>
<td>W</td>
<td>10H x 18W</td>
<td>CMP</td>
<td>1.1</td>
<td>0</td>
<td>50</td>
<td>Trash/Vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 4 - Poor</td>
<td>Sediment/Loc.</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

Photos
SDFA 8 - Wooley Rd

Catch Basin CB-O24-300

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: Dry

**General Information**

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<th>Value</th>
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<td>Longitude</td>
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<tr>
<td>Property type</td>
<td>Public</td>
</tr>
<tr>
<td>Access</td>
<td>Good</td>
</tr>
<tr>
<td>Traffic</td>
<td>Light</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt/Concrete</td>
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<tr>
<td>Dia./Ht. (in.)</td>
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<tr>
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<td>Material</td>
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<tr>
<td>Grade/rim-invert (ft.)</td>
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</tr>
<tr>
<td>Water level (%)</td>
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</tr>
<tr>
<td>Devices</td>
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</tr>
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**Condition Information and Ratings**

<table>
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<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susceptible to burial/overgrowth</td>
<td>No</td>
</tr>
<tr>
<td>Susceptible to ponding/flooding</td>
<td>No</td>
</tr>
<tr>
<td>Sediment/debris depth (%)</td>
<td>10</td>
</tr>
<tr>
<td>Type of sediment/debris</td>
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<tr>
<td>Infiltration in structure</td>
<td>None</td>
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<tr>
<td>Obstruction/deflection</td>
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<tr>
<td>VANDA Condition Rating</td>
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</tr>
<tr>
<td>Prioritization Rating</td>
<td>Level 1 - Excellent</td>
</tr>
<tr>
<td>Prioritization Rationale</td>
<td>Condition</td>
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<tr>
<td>Illegal dumping evidence</td>
<td>No</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-O24-302_CB-O24-300</td>
<td>Out</td>
<td>W</td>
<td>10H x 18W</td>
<td>CMP</td>
<td>1.1</td>
<td>0</td>
<td>50</td>
<td>Trash/vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 4 - Poor</td>
<td>Sediment/Location</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

**Photos**
SDFA 8 - Wooley Rd

Catch Basin CB-O24-302
SDFA 8 - Wooley Rd

Catch Basin CB-O24-304

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

<table>
<thead>
<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude: 34.190269</td>
<td>Susceptible to burial/overgrowth: No</td>
</tr>
<tr>
<td>Longitude: -119.170997</td>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%): 5</td>
</tr>
<tr>
<td>Access: Good</td>
<td>Type of sediment/debris</td>
</tr>
<tr>
<td>Traffic: Light</td>
<td>Infiltration in structure: None</td>
</tr>
<tr>
<td>Ground surface type: Asphalt/Concrete</td>
<td>Obstruction/deflection: 0.0</td>
</tr>
<tr>
<td>Dia./Ht. (in.): 36</td>
<td>VANDA Condition Rating: Level 2 - Minor Damage</td>
</tr>
<tr>
<td>Width (in.): 36</td>
<td>Prioritization Rating: Level 2 - Good</td>
</tr>
<tr>
<td>Material: Concrete</td>
<td>Prioritization Rationale: Condition/Location</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.): 3.1</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%): 0</td>
<td>Devices: None</td>
</tr>
</tbody>
</table>

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

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR-O24-B01_NM-O24-100</td>
<td>Out</td>
<td>SW</td>
<td>18H x 30W</td>
<td>CMP</td>
<td>3.1</td>
<td>0</td>
<td>10</td>
<td>Silt/Trash</td>
<td>Unknown</td>
<td>0</td>
<td>Level 4 -</td>
<td>Level 4 -</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

Photos
SDFA 8 - Wooley Rd

Catch Basin CB-O24-304

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-O24-308

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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-O24-308_MH-O24-104</td>
<td>Out</td>
<td>S</td>
<td>12H x 18W</td>
<td>CMP</td>
<td>1.1</td>
<td>0</td>
<td>5</td>
<td>Silt</td>
<td>Unknown</td>
<td>Level 2 - Minor Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Condition/Loc</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>PL-O24-1200_PL-O24-1201</td>
<td>In</td>
<td>SW</td>
<td>Unknown</td>
<td>Unknown</td>
<td>1.1</td>
<td>0</td>
<td>100</td>
<td>Trash/Vegetation</td>
<td>Unknown</td>
<td>Level 5 - Immediate Attention</td>
<td>Condition/Sediment</td>
<td>Under roadway. Unknown if there is actually a pipe present.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Photos
SDFA 8 - Wooley Rd

Catch Basin CB-O24-308

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*

[Image: A view of the inlet with debris]

View of inlet
SDFA 8 - Wooley Rd

**Catch Basin CB-O24-310**

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

**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
- **Longitude:** -119.173787
- **Latitude:** 34.189861
- **Devices:** None

**Notes**

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-O24-310_JR-O24-503</td>
<td>Out</td>
<td>NE</td>
<td>18</td>
<td>RCP</td>
<td>3</td>
<td>0</td>
<td>10</td>
<td>Trash</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

**Photos**
SDFA 8 - Wooley Rd

*Catch Basin CB-O24-310*

- Location view
- Catch basin
- Sketch
- View inside catch basin
- View of outlet
- View inside outlet pipe
SDFA 8 - Wooley Rd

*Catch Basin CB-O24-310*

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: 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: Unknown
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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn (in.)</th>
<th>Dia. (in.)</th>
<th>Mat'</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MH-O24-101_O24-503</td>
<td>Out</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Location</td>
<td>Under roadway.</td>
<td></td>
</tr>
</tbody>
</table>

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: Dry
Weather: 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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dif. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet</td>
<td>In</td>
<td>N</td>
<td>18</td>
<td>RCP</td>
<td>6</td>
<td>5</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Location</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>JS-O24-503_MH-O24-102</td>
<td>Unkn.</td>
<td>Unkn.</td>
<td>30</td>
<td>CMP</td>
<td>7.5</td>
<td>5</td>
<td>5</td>
<td>Silt/Rock</td>
<td>None</td>
<td>0</td>
<td>Level 2 - Minor Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Location</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>
## Storm Drainage Condition Assessment

### SDFA 8 - Wooley Rd

#### Culvert MH-O24-103

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

#### 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

**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

- **VANDA Condition Rating:** Level 1 - No Damage
- **Prioritization Rating:** Level 1 - Excellent

### Notes

- 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 Rationale: Condition
- Illegal dumping evidence: No

### 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-P28-500_MH-P28-106 | In | S | Unknown | RCP | 8.3 | 0 | 0 | None | None | 0 | Level 1 - No Damage | Level 1 - Excellent | Condition | Under roadway. |
| MH-P28-106_MH-P28-105 | Unknown | Unknown | 36H x 36W | RCB | 8.3 | 0 | 5 | Silt | Stain | 0 | Level 2 - Minor Damage | Level 2 - Good | Condition | Under roadway. |
**Culvert MH-P28-106**

| Pipe | Dir. | Hdn. | 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 | Unkown | Unkown | 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 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**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/12/2014 11:05 AM</th>
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</thead>
<tbody>
<tr>
<td>Address/location:</td>
<td>Statham Blvd</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td></td>
</tr>
<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
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</table>

### General Information

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

### 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](image-url)
SDFA 10 - Squires Dr

Area Map

Legend
- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations

Site 10

City of Oxnard
Storm Drainage Condition Assessment
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 (%): Unknown
Type of sediment/debris: Unknown
Infiltration in structure: Unknown
Obstruction/deflection: Unknown
VANDA Condition Rating: Unknown
Prioritization Rating: Level 3 - Fair
Prioritization Rationale: Condition/Location
Illegal dumping evidence: Unknown

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

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            |
|---------------|------|--------|------------|-------|---------------|-------------|----------|-----------|--------------|--------------|--------------|----------------|-------------------|------------------|------------------|
| IN-032-100, MH-P32-100 | Out  | Unkn  | Unknown | Unknown | Unknown | Unknown | Unknown | Unknown | Level 3 - Fair | Condition/Location | Under roadway. |

Photos
SDFA 10 - Squires Dr

Catch Basin CB-P32-308

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

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

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P32-308_MH-P33-101</td>
<td>Out</td>
<td>S</td>
<td>30H x 48W</td>
<td>CMP</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Coal tar epoxy coating in good condition.</td>
</tr>
<tr>
<td>TS-P32-802_CB-P32-308</td>
<td>In</td>
<td>S</td>
<td>30H x 48W</td>
<td>CMP</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Coal tar epoxy coating in good condition.</td>
</tr>
</tbody>
</table>

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:** Dry
- **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 (%):** Unknown
- **Type of sediment/debris:** Unknown
- **Infiltration in structure:** Unknown
- **Obstruction/deflection:** None
- **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**

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

**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: Dry
Weather: Weather:

General Information
Latitude: 34.151849
Longitude: -119.17031
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (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

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

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:** Dry
- **Weather:** 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**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. (g.)</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltr.</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<td>SW</td>
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<td>CMP</td>
<td>3.3</td>
<td>5</td>
<td>5</td>
<td>Silt/Trash</td>
<td>None</td>
<td>0</td>
<td>Level 4 - Severe/Si gnificant Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Loc ation</td>
<td>Under roadway.</td>
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<tr>
<td>CB-P33-308_JSM-P33-504</td>
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<td>SW</td>
<td>24</td>
<td>CMP</td>
<td>3.3</td>
<td>5</td>
<td>5</td>
<td>Silt/Trash</td>
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<td>Level 4 - Severe/Si gnificant Damage</td>
<td>Level 4 - Poor</td>
<td>Condition</td>
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**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

Legend

- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations

Site 11

0 0.05 0.1 0.2 Miles

Source: Esri DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEROS, IGN, IGN Geoportail, and the GIS User Community
HRB: Balmoral Imaging/Thinkstock ©OpenStreetMap contributors
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

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

### 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 | Susceptible to burial/overgrowth: No | Susceptible to ponding/flooding: No |
| Longitude: | -119.168272 | Sediment/debris depth (%): 10 |  
| Property type: | Public | Type of sediment/debris | Silt/Vegetation |
| Access: | Good | Infiltration in structure: | None |
| Traffic: | None | Obstruction/deflection: | 0 |
| Ground surface type: | Asphalt/Concrete | Prioritization Rationale: | Condition |
| Dia./Ht. (in.): | 36 | VANDA Condition Rating: | Level 1 - No Damage |
| Width (in.): | 36 | Prioritization Rating: | Level 1 - Excellent |
| Material: | Concrete |  
| Grade/rim-invert (ft.): | 7.4 | Illegal dumping evidence: | No |
| Water level (%): | 0 |  
| Devices: | None |  

**Notes**

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<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr. Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs./Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-P32-311_CB-P32-311</td>
<td>In</td>
<td>S</td>
<td>18</td>
<td>RCP</td>
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<td>5</td>
<td>Trash/Vegetation</td>
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<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc.</td>
<td>Under roadway.</td>
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<tr>
<td>CB-P32-311_JS-P33-500</td>
<td>Out</td>
<td>SW</td>
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<td>RCP</td>
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<td>Unknown</td>
<td>Level 2 - Good</td>
<td>Condition</td>
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</table>

**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**

<table>
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<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Latitude</td>
<td>34.153404</td>
</tr>
<tr>
<td>Longitude</td>
<td>-119.167714</td>
</tr>
<tr>
<td>Property type</td>
<td>Private</td>
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<tr>
<td>Ground surface type</td>
<td>Grass/Dirt</td>
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<tr>
<td>Dia./Ht. (in.)</td>
<td>24</td>
</tr>
<tr>
<td>Width (in.)</td>
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<tr>
<td>Material</td>
<td>Concrete</td>
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<tr>
<td>Grade/rim-invert (ft.)</td>
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<tr>
<td>Water level (%)</td>
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<tr>
<td>Devices</td>
<td>None</td>
</tr>
</tbody>
</table>

**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: Dry
Weather: 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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P33-303_CB-P33-303</td>
<td>In</td>
<td>SW</td>
<td>8</td>
<td>RCP</td>
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<td>0</td>
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<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
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</tr>
<tr>
<td>CB-P33-303_JS-P33-500</td>
<td>Out</td>
<td>SW</td>
<td>8</td>
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<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td></td>
</tr>
</tbody>
</table>

Photos

VA Project No.: 14-0195 T01
Appendix A - Asset Inventory 145
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**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/15/2014 11:06 AM</th>
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</thead>
<tbody>
<tr>
<td>Address/location:</td>
<td>Jefferson Sq.</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td>Dry</td>
</tr>
<tr>
<td>Weather:</td>
<td></td>
</tr>
</tbody>
</table>

**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 (%):** None
- **Devices: None**

**Condition Information and Ratings**

- **Susceptible to burial/overgrowth:** No
- **Susceptible to ponding/flooding:** No
- **Sediment/debris depth (%):** Unknown
- **Type of sediment/debris:** Unknown
- **Infiltration in structure:** Unknown
- **Obstruction/deflection:** Unknown
- **VANDA Condition Rating:** Unknown
- **Prioritization Rating:** Level 2 - Good
- **Prioritization Rationale:** Condition
- **Illegal dumping evidence:** No
- **Longitude:** -119.16883
- **Latitude:** 34.152675
- **Ground surface type:** Asphalt/Concrete
- **Traffic:** None
- **Access:** Good
- **Dia./Ht. (in.):** 72
- **Width (in.):** 36
- **Material:** Concrete
- **Grade/rim-invert (ft.):** 4
- **Water level (%):** None
- **Devices: None**

**Notes**

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<td>Condition</td>
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</tbody>
</table>

**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: Dry
Weather: Weather: Dry

General Information

<table>
<thead>
<tr>
<th>Latitude:</th>
<th>34.152439</th>
<th>Susceptible to burial/overgrowth: No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude:</td>
<td>-119.168358</td>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Property type:</td>
<td>Private</td>
<td>Sediment/debris depth (%): 5</td>
</tr>
<tr>
<td>Access:</td>
<td>Good</td>
<td>Type of sediment/debris: Silt/vegetation</td>
</tr>
<tr>
<td>Traffic:</td>
<td>None</td>
<td>Infiltration in structure: None</td>
</tr>
<tr>
<td>Ground surface type:</td>
<td>Asphalt</td>
<td>Obstruction/deflection: 0.0</td>
</tr>
<tr>
<td>Dia./Ht. (in.):</td>
<td>72</td>
<td>VANDA Condition Rating: Level 1 - No Damage</td>
</tr>
<tr>
<td>Width (in.):</td>
<td>36</td>
<td>Prioritization Rating: Level 1 - Excellent</td>
</tr>
<tr>
<td>Material:</td>
<td>Concrete</td>
<td>Prioritization Rationale: Condition</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>7</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Devices:</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Notes

Unable to remove grate. Chained closed.

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg.</th>
<th>Dia. (in.)</th>
<th>Mat'</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P33-300_TS-P33-300</td>
<td>Out</td>
<td>SW</td>
<td>Unkn</td>
<td>Unkw</td>
<td>7</td>
<td>0</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 2 - Good</td>
<td>Condition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JS-P33-500_CB-P33-306</td>
<td>In</td>
<td>S</td>
<td>Unkn</td>
<td>Unkw</td>
<td>7</td>
<td>0</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 2 - Good</td>
<td>Condition</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
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<tbody>
<tr>
<td>Latitude:</td>
<td>34.153876</td>
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<tr>
<td>Longitude:</td>
<td>-119.166663</td>
</tr>
<tr>
<td>Property type:</td>
<td>Private</td>
</tr>
<tr>
<td>Access:</td>
<td>Good</td>
</tr>
<tr>
<td>Traffic:</td>
<td>None</td>
</tr>
<tr>
<td>Ground surface type:</td>
<td></td>
</tr>
<tr>
<td>Dia./Ht. (in.):</td>
<td>16</td>
</tr>
<tr>
<td>Width (in.):</td>
<td></td>
</tr>
<tr>
<td>Material:</td>
<td>RCP</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>0</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
</tr>
<tr>
<td>Devices:</td>
<td>Debris/Trash Rack</td>
</tr>
</tbody>
</table>

**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

**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  | Susceptible to burial/overgrowth: No  
| Longitude  | -119.166791 | Susceptible to ponding/flooding: Yes  
| Property type: | Public  | Sediment/debris depth (%): 0  
| Access: | Good  | Type of sediment/debris: None  
| Traffic: | None  | Infiltration in structure: None  
| Ground surface type: | Asphalt/Concrete  | Obstruction/deflection: 0.0  
| Dia./Ht. (in.): | 114  | VANDA Condition Rating: Level 1 - No Damage  
| Width (in.): | 36  | Prioritization Rating: Level 1 - Excellent  
| Material: | Concrete  | Prioritization Rationale: Condition  
| Grade/rim-invert (ft.): | 2.9  | Illegal dumping evidence: No  
| Water level (%): | 10  |  
| Devices: | None  |  

### Notes

#### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P36-300_CB-P36-301</td>
<td>Out</td>
<td>S</td>
<td>24H x 36W</td>
<td>RCB</td>
<td>2.3</td>
<td>10</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

### 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

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

Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.5
Water level (%): 10
Devices: None

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

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

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: Dry
Weather: Weather: Dry

General Information
Latitude: 34.132987
Longitude: -119.16677
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete/Grass/Dirt

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

Prioritization Rationale: Condition
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent

Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.7
Water level (%): 10
Devices: None

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

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg.</th>
<th>Dia.</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infil-tration</th>
<th>Obs/Dft. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P37-300_CB-P37-302</td>
<td>In</td>
<td></td>
<td>18H x 24W</td>
<td>CMP</td>
<td>2.7</td>
<td>0</td>
<td>5</td>
<td>Silt</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Pipe has coal tar epoxy coating and is in good interior condition.</td>
</tr>
<tr>
<td>CB-P37-302_RR-P37-800</td>
<td>Out</td>
<td></td>
<td>18H x 24W</td>
<td>CMP</td>
<td>2.7</td>
<td>15</td>
<td>5</td>
<td>Silt</td>
<td>None</td>
<td>10</td>
<td>Level 2 - Minor Damage</td>
<td>Level 2 - Good</td>
<td>Condition</td>
<td>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.</td>
</tr>
</tbody>
</table>

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:** Dry
- **Weather:** Dry

**General Information**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<tbody>
<tr>
<td>Latitude</td>
<td>34.18528</td>
</tr>
<tr>
<td>Longitude</td>
<td>-119.240048</td>
</tr>
<tr>
<td>Property type</td>
<td>Public</td>
</tr>
<tr>
<td>Access</td>
<td>Good</td>
</tr>
<tr>
<td>Traffic</td>
<td>None</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt/Concrete</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>144</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>4.2</td>
</tr>
<tr>
<td>Water level (%)</td>
<td>5</td>
</tr>
<tr>
<td>Devices</td>
<td>None</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Matt</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infil-tration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-E25-300_CB-E25-301</td>
<td>Out W</td>
<td>36</td>
<td>CMP</td>
<td>4.2</td>
<td>5</td>
<td>10</td>
<td>Si/ltRock</td>
<td>None</td>
<td>5</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Loc ation</td>
<td>Under roadway.</td>
<td></td>
</tr>
</tbody>
</table>

**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
Prioritization Rationale: Condition/Other
Illegal dumping evidence: No

VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 2 - Good

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

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'1</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-E25-300_CB-E25-301</td>
<td>In</td>
<td>W</td>
<td>36</td>
<td>CMP</td>
<td>4.7</td>
<td>10</td>
<td>Silt/Rock</td>
<td>None</td>
<td>0</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Loc</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>CB-E25-301_CB-E25-302</td>
<td>Out</td>
<td>W</td>
<td>48</td>
<td>CMP</td>
<td>4.7</td>
<td>5</td>
<td>Silt/Rock</td>
<td>None</td>
<td>0</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Loc</td>
<td>Under residentially</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/14/2014 10:39 AM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address/location:</td>
<td>Mandalay Beach Rd</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td></td>
</tr>
<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
</tbody>
</table>

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.):           | N/A        |
| 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:** Dry
- **Weather:**

**General Information**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>34.191309</td>
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<tr>
<td>Longitude</td>
<td>-119.23625</td>
</tr>
<tr>
<td>Property type</td>
<td>Public</td>
</tr>
<tr>
<td>Diameter/Height (in.)</td>
<td>136</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>4.9</td>
</tr>
<tr>
<td>Water level (%)</td>
<td>5</td>
</tr>
<tr>
<td>Devices</td>
<td>None</td>
</tr>
</tbody>
</table>

**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
- Longitude: -119.23625
- Latitude: 34.191309
- Devices: None

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

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn</th>
<th>Dia. (in.)</th>
<th>Mat'</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infil-tration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-F23-300_CB-F23-301</td>
<td>Out</td>
<td>E</td>
<td>36</td>
<td>RCP</td>
<td>4.9</td>
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<td>5</td>
<td>Silt/Trash</td>
<td>Stain</td>
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<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Location</td>
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</tr>
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</table>

**Notes**

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

General Information

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<tr>
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<td>Traffic:</td>
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<td>Concrete</td>
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<tr>
<td>Grade/rim-invert (ft.):</td>
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<td>Water level (%):</td>
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<tr>
<td>Ground surface type:</td>
<td>Asphalt/Concrete</td>
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<tr>
<td>Dia./Ht. (in.):</td>
<td>94</td>
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<tr>
<td>Width (in.):</td>
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</tr>
<tr>
<td>Material:</td>
<td>Concrete</td>
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<tr>
<td>Grade/rim-invert (ft.):</td>
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<td>Water level (%):</td>
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Condition Information and Ratings

<table>
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<tr>
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<th>Value</th>
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<tbody>
<tr>
<td>Susceptible to burial/overgrowth:</td>
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</tr>
<tr>
<td>Susceptible to ponding/flooding:</td>
<td>No</td>
</tr>
<tr>
<td>Sediment/debris depth (%):</td>
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</tr>
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<td>Type of sediment/debris:</td>
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</tr>
<tr>
<td>Infiltration in structure:</td>
<td>None</td>
</tr>
<tr>
<td>Obstruction/deflection:</td>
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</tr>
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<td>VANDA Condition Rating:</td>
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</tr>
<tr>
<td>Prioritization Rating:</td>
<td>Level 1 - Excellent</td>
</tr>
<tr>
<td>Prioritization Rationale:</td>
<td>Condition</td>
</tr>
<tr>
<td>Illegal dumping evidence:</td>
<td>No</td>
</tr>
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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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-F23-300_CB-F23-301</td>
<td>In</td>
<td>E</td>
<td>36</td>
<td>RCP</td>
<td>5.2</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
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<td>Level 1 - Excellent</td>
<td>Condition</td>
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</tr>
<tr>
<td>CB-F23-302_CB-F23-301</td>
<td>In</td>
<td>E</td>
<td>24</td>
<td>RCP</td>
<td>5.2</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
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</table>
### SDFA 14 - Canal St

**Catch Basin CB-F23-301**

| Pipe | Dir. | Hdn. | 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:** Dry
- **Weather:**

  **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**

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<tr>
<th>Pipe</th>
<th>Dir.</th>
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<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-F23-302_CB-F23-301</td>
<td>Out</td>
<td>NE</td>
<td>24</td>
<td>RCP</td>
<td>4.3</td>
<td>0</td>
<td>5</td>
<td>Silt/Vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

**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

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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-M24-300, CB-M24-302</td>
<td>Out</td>
<td>S</td>
<td>12</td>
<td>RCP</td>
<td>4.2</td>
<td>0</td>
<td>5</td>
<td>Trash</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td></td>
</tr>
</tbody>
</table>

Photos
SDFA 15 - Wooley Rd

Catch Basin CB-M24-300

Location view

Catch basin

Sketch

View inside catch basin

View override 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: Dry
Weather:

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

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<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
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<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-M24-301, CB-M24-302</td>
<td>Out</td>
<td>E</td>
<td>18</td>
<td>RCP</td>
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<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway. Water ponding at low point.</td>
</tr>
</tbody>
</table>

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'1 | 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  | 12    | RCP        | 0     | 5             | Trash       | None     |           |               | 0            | Level 1 - No Damage | Level 1 - Excellent | Condition                           | Under roadway. Water ponding at low point. |
| CB-M24-301_CB-M24-302 | In  | 18    | RCP        | 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**

<table>
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<th>Pipe</th>
<th>Dir.</th>
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<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infilt.</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<tbody>
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<td>Unknown</td>
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<td>Condition/Loc</td>
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**Photos**

- Location view
- Catch basin
- Sketch
- View inside catch basin
### SDFA 15 - Wooley Rd

**Catch Basin CB-M24-304**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/16/2014 11:58 AM</th>
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<td>Ilena St</td>
</tr>
<tr>
<td>Map grid reference:</td>
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#### General Information

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<td>Access:</td>
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<td>Traffic:</td>
<td>Light</td>
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<tr>
<td>Ground surface type:</td>
<td>Asphalt/Concrete</td>
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<tr>
<td>Dia./Ht. (in.):</td>
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<tr>
<td>Width (in.):</td>
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</tr>
<tr>
<td>Material:</td>
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<tr>
<td>Grade/rim-invert (ft.):</td>
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<td>Water level (%):</td>
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<td>Devices:</td>
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#### Condition Information and Ratings

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<thead>
<tr>
<th>Susceptible to burial/overgrowth:</th>
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<tbody>
<tr>
<td>Susceptible to ponding/flooding:</td>
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<tr>
<td>Sediment/debris depth (%):</td>
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<tr>
<td>Type of sediment/debris:</td>
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</tr>
<tr>
<td>Infiltration in structure:</td>
<td>N/A</td>
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<tr>
<td>Obstruction/deflection:</td>
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<td>VANDA Condition Rating:</td>
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</tr>
<tr>
<td>Prioritization Rating:</td>
<td>Level 2 - Good</td>
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<tr>
<td>Prioritization Rationale:</td>
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</tr>
<tr>
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</table>

#### 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**

<table>
<thead>
<tr>
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<th>9/16/2014 11:51 AM</th>
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<tbody>
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#### General Information

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<td>Property type:</td>
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<td>Traffic:</td>
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<td>Ground surface type:</td>
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<td>Dia./Ht. (in.):</td>
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<td>Width (in.):</td>
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<tr>
<td>Material:</td>
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<tr>
<td>Grade/rim-invert (ft.):</td>
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<tr>
<td>Water level (%):</td>
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</tr>
<tr>
<td>Devices:</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### Condition Information and Ratings

| Susceptible to burial/overgrowth: | N/A |
| Susceptible to ponding/flooding: | N/A |
| Sediment/debris depth (%):        | N/A |
| 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: Dry

Weather: Weather: Dry

General Information

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<thead>
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<th>Access</th>
<th>Traffic</th>
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<th>Dia./Ht. (in.)</th>
<th>Width (in.)</th>
<th>Material</th>
<th>Grade/rim-invert (ft.)</th>
<th>Water level (%)</th>
<th>Devices</th>
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<td>Light</td>
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Condition Information and Ratings

<table>
<thead>
<tr>
<th>Susceptible to burial/overgrowth</th>
<th>Sediment/debris depth (%)</th>
<th>Type of sediment/debris</th>
<th>Infiltration in structure</th>
<th>Obstruction/deflection</th>
<th>Prioritization Rationale</th>
<th>Prioritization Rating</th>
<th>Condition Rating</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>10</td>
<td>Silt/Vegetation/Trash</td>
<td>None</td>
<td>0.0</td>
<td>Condition</td>
<td>Level 1 - Excellent</td>
<td>Level 1 - No Damage</td>
<td></td>
</tr>
</tbody>
</table>

Notes

Connected to 18-inch RCP.

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. g</th>
<th>Dia. (in.)</th>
<th>Mat'1</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>VANDA Condition Rating</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-M24-308</td>
<td>In</td>
<td>E</td>
<td>18</td>
<td>RCP</td>
<td>5.25</td>
<td>0</td>
<td>5</td>
<td>Trash</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td></td>
</tr>
<tr>
<td>CB-M24-316</td>
<td>Out</td>
<td>S</td>
<td>18</td>
<td>RCP</td>
<td>5.25</td>
<td>0</td>
<td>5</td>
<td>Trash</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td></td>
</tr>
</tbody>
</table>

Photos

VA Project No.: 14-0195 T01
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**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/16/2014 10:30 AM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address/location:</td>
<td>King St</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td></td>
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<tr>
<td>Weather:</td>
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### General Information

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

### Condition Information and Ratings

- Susceptible to burial/overgrowth: N/A
- Susceptible to ponding/flooding: N/A
- Sediment/debris depth (%): N/A
- Type of sediment/debris: N/A
- Infiltration in structure: N/A
- Obstruction/deflection: N/A
- 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**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/16/2014 10:25 AM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address/location:</td>
<td>S F St</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td></td>
</tr>
<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
</tbody>
</table>

**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:** Dry
- **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**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Dir.</th>
<th>Dia-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-M24-313 JS-M24-502</td>
<td>Out</td>
<td>S</td>
<td>18</td>
<td>RCP</td>
<td>2.8</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 4 - Severe/Significant Damage</td>
<td>Level 5 - Immediate Attention</td>
<td>Condition/Loc</td>
<td>Under roadway. Hole in pipe</td>
</tr>
</tbody>
</table>

**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: Dry
Weather: Dry

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

Condition Information and Ratings
VANDA Condition Rating: Level 1 - No Damage
Prioritization Rating: Level 1 - Excellent
Prioritization Rationale: Other
Illegal dumping evidence: No

Notes

Pipe Connections

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

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**

<table>
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<th>9/16/2014 1:30 PM</th>
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<td>W Wooley Rd</td>
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<tr>
<td>Map grid reference:</td>
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<td>Weather:</td>
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#### General Information

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

#### Condition Information and Ratings

| Susceptible to burial/overgrowth: | N/A |
| Susceptible to ponding/flooding: | N/A |
| Sediment/debris depth (%):        | N/A |
| Type of sediment/debris           | N/A |
| Infiltration in structure:        | N/A |
| Obstruction/deflection:           | N/A |
| 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: Dry
Weather: 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

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

Photos
SDFA 15 - Wooley Rd

*NTS

12” GD

Sketch

View inside catch basin

View inside catch basin

View inside catch basin

Catch basin

Location view
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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg.</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-N24-301_CB-N24-304</td>
<td>Out</td>
<td>W</td>
<td>Unknown</td>
<td>RCP</td>
<td>4</td>
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<td>Unknown</td>
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<td></td>
<td></td>
<td>Level 3 - Fair</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Latitude</th>
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<th>Susceptible to burial/overgrowth:</th>
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<tbody>
<tr>
<td>Longitude</td>
<td>-119.183636</td>
<td>Susceptible to ponding/flooding:</td>
<td>No</td>
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<tr>
<td>Property type:</td>
<td>Public</td>
<td>Sediment/debris depth (%):</td>
<td>5</td>
</tr>
<tr>
<td>Access:</td>
<td>Good</td>
<td>Type of sediment/debris</td>
<td>Vegetation/Trash</td>
</tr>
<tr>
<td>Traffic:</td>
<td>Light</td>
<td>Infiltration in structure:</td>
<td>None</td>
</tr>
<tr>
<td>Ground surface type:</td>
<td>Asphalt/Concrete</td>
<td>Obstruction/deflection:</td>
<td>0.0</td>
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<tr>
<td>Dia./Ht. (in.):</td>
<td>180</td>
<td>VANDA Condition Rating:</td>
<td>Level 1 - No Damage</td>
</tr>
<tr>
<td>Width (in.):</td>
<td>36</td>
<td>Prioritization Rating:</td>
<td>Level 1 - Excellent</td>
</tr>
<tr>
<td>Material:</td>
<td>Concrete</td>
<td>Prioritization Rationale:</td>
<td>Condition</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
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<td>Illegal dumping evidence:</td>
<td>No</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
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</tr>
<tr>
<td>Devices:</td>
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<td></td>
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### Notes

#### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-N24-302_MH-N24-100</td>
<td>Out</td>
<td>E</td>
<td>24</td>
<td>RCP</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

### 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: Dry
Weather: 

General Information

<p>| | | | | |</p>
<table>
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<tr>
<td>Traffic:</td>
<td>Light</td>
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<td></td>
</tr>
<tr>
<td>Ground surface type:</td>
<td>Asphalt/Concrete</td>
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<td></td>
</tr>
<tr>
<td>Dia./Ht. (in.):</td>
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<tr>
<td>Width (in.):</td>
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<tr>
<td>Material:</td>
<td>Concrete</td>
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<tr>
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<td>Water level (%):</td>
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<tr>
<td>Devices:</td>
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</tbody>
</table>

Condition Information and Ratings

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

Notes

Connected to 36-inch and 24-inch RCP.

Pipe Connections

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

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
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

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<tr>
<th>Parameter</th>
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<tr>
<td>Longitude</td>
<td>-119.181125</td>
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<tr>
<td>Property type</td>
<td>Public</td>
</tr>
<tr>
<td>Access</td>
<td>Good</td>
</tr>
<tr>
<td>Traffic</td>
<td>Night Site</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>108</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>3.6</td>
</tr>
<tr>
<td>Water level (%)</td>
<td>5</td>
</tr>
<tr>
<td>Devices</td>
<td>None</td>
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### Condition Information and Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susceptible to burial/overgrowth</td>
<td>No</td>
</tr>
<tr>
<td>Susceptible to ponding/flooding</td>
<td>No</td>
</tr>
<tr>
<td>Sediment/debris depth (%)</td>
<td>5</td>
</tr>
<tr>
<td>Type of sediment/debris</td>
<td>Rock/Vegetation/Trash</td>
</tr>
<tr>
<td>Infiltration in structure</td>
<td>None</td>
</tr>
<tr>
<td>Obstruction/deflection</td>
<td>0.0</td>
</tr>
<tr>
<td>VANDA Condition Rating</td>
<td>Level 1 - No Damage</td>
</tr>
<tr>
<td>Prioritization Rating</td>
<td>Level 1 - Excellent</td>
</tr>
<tr>
<td>Prioritization Rationale</td>
<td>Condition</td>
</tr>
<tr>
<td>Illegal dumping evidence</td>
<td>No</td>
</tr>
</tbody>
</table>

### Notes

Unable to remove grate at time of assessment.

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia.</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dft. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-N24-301_CB-N24-304</td>
<td>In</td>
<td>S</td>
<td>18</td>
<td>RCP</td>
<td>3.6</td>
<td>5</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td></td>
</tr>
<tr>
<td>CB-N24-301_CB-N24-304</td>
<td>In</td>
<td>W</td>
<td>Unkn</td>
<td>RCP</td>
<td>3.6</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Level 3 - Fair</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>
## 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: Dry
Weather: 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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-N24-306_N24-500</td>
<td>Out</td>
<td>S</td>
<td>Unknown</td>
<td>Unknown</td>
<td>2.3</td>
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<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Location</td>
<td>Under roadway</td>
<td></td>
</tr>
</tbody>
</table>

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 | Susceptible to burial/overgrowth: | No |
| Longitude: | -119.178722 | Susceptible to ponding/flooding: | Yes |
| Property type: | Public | Sediment/debris depth (%): | 10 |
| Access: | Good | Type of sediment/debris | Silt/Vegetation/Trash |
| Traffic: | Light | Infiltration in structure: | None |
| Ground surface type: | Asphalt/Concrete | Obstruction/deflection: | 0.0 |
| Dia./Ht. (in.): | 72 | VANDA Condition Rating: | Level 1 - No Damage |
| Width (in.): | 36 | Prioritization Rating: | Level 1 - Excellent |
| Material: | Concrete | Prioritization Rationale: | Condition |
| Grade/rim-invert (ft.): | 2.5 | Illegal dumping evidence: | No |
| Water level (%): | 5 |
| Devices: | None |

### Notes

Connected to 18-inch RCP

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-N24-307_JS-N24-502</td>
<td>Out</td>
<td>SE</td>
<td>12</td>
<td>RCP</td>
<td>2.5</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Loc ation</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

### Photos
SDFA 15 - Wooley Rd

*Catch Basin CB-N24-307*

[Images of location view, catch basin, sketch, and views inside the 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: Dry
Weather: Weather: Dry

General Information

| Latitude:       | 34.190215          | Susceptible to burial/overgrowth: No |
| Longitude:      | -119.178722        | Susceptible to ponding/flooding: No |
| Property type:  | Public             | Sediment/debris depth (%): 10       |
| Access:         | Good               | Type of sediment/debris           |
| Traffic:        | Light              | Infiltration in structure: None    |
| Ground surface type: | Asphalt/Concrete | Obstruction/deflection: 0.0        |
| Dia./Ht. (in.): | 72                 | VANDA Condition Rating: Level 1 - No Damage |
| Width (in.):    | 36                 | Prioritization Rating: Level 1 - Excellent |
| Material:       | Concrete           | Prioritization Rationale: Condition |
| Grade/rim-invert (ft.): | 2.5  | Illegal dumping evidence: No |
| Water level (%): | 5                 |                                    |
| Devices:        | None               |                                    |

Notes
Connected to 18-inch RCP.

Pipe Connections

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

Photos

VA Project No.: 14-0195 TO1
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: Dry
Weather: Dry

**General Information**

<table>
<thead>
<tr>
<th>Property type</th>
<th>Access</th>
<th>Traffic</th>
<th>Ground surface type</th>
<th>Dia./Ht. (in.)</th>
<th>Width (in.)</th>
<th>Material</th>
<th>Grade/rim-invert (ft.)</th>
<th>Water level (%)</th>
<th>Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>Good</td>
<td>Heavy</td>
<td>Asphalt/Concrete</td>
<td>72</td>
<td>36</td>
<td>Concrete</td>
<td>7</td>
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<td>None</td>
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**Condition Information and Ratings**

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<th>Longitude</th>
<th>Susceptible to burial/overgrowth:</th>
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<tbody>
<tr>
<td>34.190118</td>
<td>-119.179022</td>
<td>Susceptible to ponding/flooding:</td>
<td>No</td>
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<tr>
<td></td>
<td></td>
<td>Sediment/debris depth (%):</td>
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</tbody>
</table>

**Prioritization Rating**

- Level 3 - Fair

**Prioritization Rationale**

- Sediment

**VANDA Condition Rating**

- Level 1 - No Damage

**Water level (%)**

- 0

**Illegal dumping evidence**

- No

**Grade/rim-invert (ft.)**

- 7

**Obstruction/deflection**

- 0.0

**Condition Information and Ratings**

- Vegetation/Trash

**Sediment/debris depth (%)**

- 25

**Type of sediment/debris**

- Vegetation/Trash

**Infiltration in structure**

- None

**Obstruction/deflection**

- 0.0

**Illegal dumping evidence**

- No

**Notes**

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

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. g</th>
<th>Dia. (in.)</th>
<th>Mat'1</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl.</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-N24-309_J5-N24-503</td>
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<td>S</td>
<td>18</td>
<td>RCP</td>
<td>7</td>
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<td>Level 4 - Poor</td>
<td>Condition/Sediment</td>
<td>Under roadway.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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: Dry

Weather:

General Information

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<thead>
<tr>
<th>Latitude</th>
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<tr>
<td>Longitude</td>
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<tr>
<td>Access</td>
<td>Good</td>
</tr>
<tr>
<td>Traffic</td>
<td>Heavy</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt/Concrete</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>8.5</td>
</tr>
<tr>
<td>Water level (%)</td>
<td>0</td>
</tr>
<tr>
<td>Devices</td>
<td>None</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>JS-N24-501_MH-N24-104</td>
<td>Out</td>
<td>W</td>
<td>Unknown</td>
<td>RCP</td>
<td>8.5</td>
<td>5</td>
<td>5</td>
<td>Silt/Gravel</td>
<td>Stain</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Loc</td>
<td>Under roadway</td>
</tr>
<tr>
<td>MH-N24-101_JS-N24-501</td>
<td>In</td>
<td>W</td>
<td>Unknown</td>
<td>RCP</td>
<td>8.5</td>
<td>5</td>
<td>5</td>
<td>Silt/Trash</td>
<td>Stain</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Loc</td>
<td>Under roadway</td>
</tr>
</tbody>
</table>

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 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

<table>
<thead>
<tr>
<th>Latitude</th>
<th>Longitude</th>
<th>Property type</th>
<th>Access</th>
<th>Traffic</th>
<th>Ground surface type</th>
<th>Dia./Ht. (in.)</th>
<th>Width (in.)</th>
<th>Material</th>
<th>Grade/rim-invert (ft.)</th>
<th>Water level (%)</th>
<th>Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Ashpalt</td>
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Condition Information and Ratings

<table>
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<tr>
<td>Sediment/debris depth (%)</td>
<td>Unknown</td>
</tr>
<tr>
<td>Type of sediment/debris</td>
<td>Unknown</td>
</tr>
<tr>
<td>Infiltration in structure</td>
<td>Unknown</td>
</tr>
<tr>
<td>Obstruction/deflection</td>
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</tr>
<tr>
<td>Prioritization Rating</td>
<td>Level 3 - Fair</td>
</tr>
<tr>
<td>Prioritization Rationale</td>
<td>Absence</td>
</tr>
<tr>
<td>Illegal dumping evidence</td>
<td>Unknown</td>
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Notes

Unable to locate.

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltr</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MH-M24-105_MH-M24-103</td>
<td>Out</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
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<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under roadway. Unable to locate access point.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltr</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<tr>
<td>TS-N24-803_MH-M24-105</td>
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<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
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<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under roadway. Unable to locate access point.</td>
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<td></td>
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</tbody>
</table>

Photos

VA Project No.: 14-0195 T01
City of Oxnard
Storm Drainage Condition Assessment

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: Dry
Weather: Weather: Weather:

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
Priority 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

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

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:** Dry
- **Weather:**

### 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
- **Longitude:** -119.17016
- **Latitude:** 34.168178
- **Illegal dumping evidence:** No
- **Legal dumping evidence:** No

### Notes


### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn</th>
<th>Dia. (in.)</th>
<th>Dir.</th>
<th>Mat'</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-P29-301_JS-P29-501</td>
<td>Out</td>
<td>S</td>
<td>11H x 21W</td>
<td>CMP</td>
<td>2.2</td>
<td>0</td>
<td>5</td>
<td>Trash/vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 3 - Fair</td>
<td>Condition</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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

VA Project No.: 14-0195 T01
SDFA 16 - Fournier St

Catch Basin CB-P29-301

View inside outlet pipe
### SDFA 16 - Fournier St

**Culvert JS-P29-501_JS-P29-504**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/12/2014 12:45 PM</th>
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<tr>
<td>Address/location:</td>
<td>Ally by Tamarac</td>
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<tr>
<td>Map grid reference:</td>
<td></td>
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<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
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</table>

**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.): | Unknown |
| Material:   | Unknown |
| Grade/rim-invert (ft.): | 10 |
| Water level (%): | Flap gate |
| Devices:    | Flap gate |

**Condition Information and Ratings**

- Susceptible to burial/overgrowth: No
- Susceptible to ponding/flooding: No
- Sediment/debris depth (%): Unknown
- Type of sediment/debris: Unknown
- Infiltration in structure: Unknown
- Obstruction/deflection: 240
- 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

Legend
- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations

Site 17

Scale: 1:2,000

VA Project No.: 14-0195 T01

Appendix A - Asset Inventory
### General Information

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

### Condition Information and Ratings

- **Lat:** 34.161955
- **Long:** -119.148939
- **App: **Asset Inventory VA Project No.: 14-0195 TO1

### Pipe Connections

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

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

Legend

- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations

Site 18

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/CIRCE, USGS, Apple, Mapbox

246

VA Project No.: 14-0195 T01
Storm Drainage Condition Assessment

City of Oxnard

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: Dry

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

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

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

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<th>General Information</th>
<th>Condition Information and Ratings</th>
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<td>Latitude: 34.18617</td>
<td>Susceptible to burial/overgrowth: No</td>
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<tr>
<td>Longitude: -119.202862</td>
<td>Susceptible to ponding/flooding: No</td>
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<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%): 10</td>
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<tr>
<td>Access: Good</td>
<td>Type of sediment/debris: Vegetation/Trash</td>
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<tr>
<td>Traffic: Light</td>
<td>Infiltration in structure: None</td>
</tr>
<tr>
<td>Ground surface type: Asphalt/Concrete</td>
<td>Obstruction/deflection: 0.0</td>
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<tr>
<td>Dia./Ht. (in.): 120</td>
<td>VANDA Condition Rating: Level 1 - No Damage</td>
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<tr>
<td>Width (in.): 36</td>
<td>Prioritization Rating: Level 1 - Excellent</td>
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<tr>
<td>Material: Concrete</td>
<td>Prioritization Rationale: Condition</td>
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<tr>
<td>Grade/rim-invert (ft.): 2.6</td>
<td>Illegal dumping evidence: No</td>
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<tr>
<td>Water level (%): 0</td>
<td>Devices: None</td>
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**Notes**

**Pipe Connections**

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<tr>
<th>Pipe</th>
<th>Dir.</th>
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<th>Dia.</th>
<th>Mat'</th>
<th>Rim-inv</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-K25-301 JS-K25-500</td>
<td>Out</td>
<td>W</td>
<td>18</td>
<td>RCP</td>
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<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td></td>
</tr>
</tbody>
</table>

**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

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn.</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Dir.</th>
<th>Rm-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infil-tration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-K25-303_JS-25-501</td>
<td>In/Out</td>
<td>W</td>
<td>18H x 92W</td>
<td>RCB</td>
<td>2.5</td>
<td>5</td>
<td>5</td>
<td>Silt/Vegetation/Trash</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway and park.</td>
<td></td>
</tr>
</tbody>
</table>

Photos
SDFA 18 - Hill St

Catch Basin CB-K25-302

Location view

Catch basin

Sketch

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

<table>
<thead>
<tr>
<th>Latitude</th>
<th>34.181246</th>
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<tbody>
<tr>
<td>Longitude</td>
<td>-119.194815</td>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Property type:</td>
<td>Public</td>
<td>Sediment/debris depth (%): 25</td>
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<tr>
<td>Access:</td>
<td>Good</td>
<td>Type of sediment/debris: Vegetation/Trash</td>
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<td>Traffic:</td>
<td>Light</td>
<td>Infiltration in structure: None</td>
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<tr>
<td>Ground surface type:</td>
<td>Asphalt/Concrete</td>
<td>Obstruction/deflection: 0.0</td>
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<tr>
<td>Dia./Ht. (in.):</td>
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<td>Grade/rim-invert (ft.):</td>
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<tr>
<td>Water level (%):</td>
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</tr>
<tr>
<td>Devices:</td>
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**Notes**

Moderate buildup of debris and trash.

### Pipe Connections

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

### 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: Dry
Weather: Dry

General Information
Latitude: 34.182994
Longitude: -119.168444
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Dirt
Dia./Ht. (in.): 256
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
Storm Drainage Condition Assessment
City of Oxnard

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: Dry
Weather:

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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg (in.)</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dft. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS-P25-500_MH-P25-108</td>
<td>In</td>
<td>SE</td>
<td>36</td>
<td>CMP</td>
<td>8.4</td>
<td>5</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 2 - Minor Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under roadway. Minor surface corrosion. Appears that the flap gate for the inlet pipe has broken off.</td>
</tr>
<tr>
<td>MH-P25-108_MIS-P25-807</td>
<td>Out</td>
<td>S</td>
<td>36</td>
<td>RCP</td>
<td>8.4</td>
<td>5</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

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
Area Map

Legend
- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations
SDFA 20 - Esplanade Dr

Catch Basin CB-O14-327

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

Weather: Weather: 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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltr.</th>
<th>Obs/Dft. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outlet</td>
<td>Out</td>
<td>SW</td>
<td>12</td>
<td>CMP</td>
<td>2</td>
<td>0</td>
<td>20</td>
<td>Trash/Silt</td>
<td>None</td>
<td>0</td>
<td>Level 2 - Minor Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Location/Sediment</td>
<td>Under roadway, loss of galvanization at invert.</td>
</tr>
</tbody>
</table>

Photos
SDFA 20 - Esplanade Dr

Catch Basin CB-O14-327

Location view

Catch basin

Sketch

View inside catch basin

View of outlet

View inside outlet pipe
SDFA 20 - Esplanade Dr

*Catch Basin CB-O14-327*

View inside outlet pipe
SDFA 20 - Esplanade Dr

Catch Basin CB-O14-328

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

General Information

<table>
<thead>
<tr>
<th>Latitude</th>
<th>34.231564</th>
<th>Condition Information and Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude</td>
<td>-119.175782</td>
<td>Susceptible to burial/overgrowth: No</td>
</tr>
<tr>
<td>Property type</td>
<td>Public</td>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Access</td>
<td>Good</td>
<td>Sediment/debris depth (%): Unknown</td>
</tr>
<tr>
<td>Traffic</td>
<td>Light</td>
<td>Type of sediment/debris: Unknown</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt/Concrete</td>
<td>Infiltration in structure: Unknown</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>72</td>
<td>Obstruction/deflection: Unknown</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
<td>VANDA Condition Rating: Unknown</td>
</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
<td>Prioritization Rating: Level 3 - Fair</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>Unknow</td>
<td>Prioritization Rationale: Condition</td>
</tr>
<tr>
<td>Water level (%)</td>
<td></td>
<td>Illegal dumping evidence: No</td>
</tr>
</tbody>
</table>

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 | Infiltration | Obs/Dlf. (%) | VANDA Rating | Priority Rating | Priority Rationale | Notes               |
|------|------|-------|------------|-------|--------------|-------------|----------|----------|--------------|--------------|---------------|----------------|------------------|---------------------|---------------------|
| Inlet| In   | SW    | 12         | CMP   |              | 0           | 20       | Trash/Silt| None         |              |               | Level 2 - Minor Damage |                  | Under roadway.     |
| Outlet| Out | SE    | Unknown   | Unknown |              | Unknown     | Unknown  | Unknown  | Level 3 - Fair | Condition/Location/Sediment |                  | 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-O14-329

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

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: Silt/vegetation/trash
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

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

Photos
SDFA 20 - Esplanade Dr

*Catch Basin CB-O14-329*

Location view

Catch basin

Sketch

View inside catch basin

View inside catch basin

View inside catch basin
SDFA 20 - Esplanade Dr

Catch Basin CB-O14-329

View inside catch basin

View of outlet

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe
GDF 80 - 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
SDFA 20 - Esplanade Dr

Catch Basin CB-O14-330

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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg.</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>N Inlet</td>
<td>In</td>
<td>S</td>
<td>40</td>
<td>RCP</td>
<td>6.2</td>
<td>5</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>Outlet</td>
<td>Out</td>
<td>S</td>
<td>Unknown</td>
<td>Unknown</td>
<td>6</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc ation</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>
## SDFA 20 - Esplanade Dr

### Catch Basin CB-O14-330

| Pipe | Dir. Hdn | Hdg | Dia. (in.) | Mat'l | Rim-inv (ft.) | Wtr Lvl (%) | Sed. (%) | Sed. Type | Infiltration | Obs/Dft. (%) | 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-O14-331**

- **Evaluation date/time:** 9/17/2014 2:54 PM
- **Address/location:** W Esplanade Dr
- **Map grid reference:** 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
- **Illegal dumping evidence:** No
- **Longitude:** -119.175053
- **Latitude:** 34.230341

### Notes

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outlet</td>
<td>Out</td>
<td>E</td>
<td>24</td>
<td>RCP</td>
<td>4.6</td>
<td>5</td>
<td>5</td>
<td>Rock/Trash</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Location</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

### Photos
SDFA 20 - Esplanade Dr

Catch Basin CB-O14-331

Location view

Catch basin

Sketch

View inside catch basin

View inside catch basin

View inside catch basin
SDFA 20 - Esplanade Dr

Manhole MH-O14-106

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

PRIORITY RATIONALE

| VANDA Condition Rating | Level 1 - No Damage |
| Prioritization Rating | Level 1 - Excellent |
| Prioritization Rationale | Condition |

Notes

Pipe Connections

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

Photos
SDFA 20 - Esplanade Dr

*Manhole MH-O14-106*

![Location view](image1)

![Sketch](image2)

![View inside manhole](image3)

![View of outlet](image4)

![View inside outlet pipe](image5)

![View inside outlet pipe](image6)
SDFA 20 - Esplanade Dr

Manhole MH-O14-106

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 Pl
Map grid reference: Dry
Weather: 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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. g</th>
<th>Dia. (in.)</th>
<th>Matt'</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-N14-303, CB-N14-303</td>
<td>Out</td>
<td>S</td>
<td>18</td>
<td>RCP</td>
<td>4.3</td>
<td>0</td>
<td>5</td>
<td>Silt/Trash</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

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: Dry

Weather: Weather: Weather:

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

Condition Information and Ratings
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

Sed. Type

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

Notes

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 Pl
Map grid reference: Dry
Weather: Dry

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_TSN14-807

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

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

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

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

Photos
Storm Drainage Condition Assessment
City of Oxnard

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

*Catch Basin CB-M14-325*

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

**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
- Longitude: -119.189107
- Latitude: 34.229236

**Notes**

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

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl.</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-M14-325_JS-M14-509</td>
<td>Out</td>
<td>N</td>
<td>18H x 30W</td>
<td>CMP</td>
<td>3</td>
<td>0</td>
<td>10</td>
<td>Silt/Trash/Vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition</td>
<td>Coal tar epoxy coating appears to be in good condition.</td>
</tr>
</tbody>
</table>

**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: Dry
Weather: 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
Latitude: 34.228925 Susceptible to burial/overgrowth: No
Longitude: -119.189343 Susceptible to ponding/flooding: No
Property type: Public Sediment/debris depth (%): 10
Access: Good Type of sediment/debris: Silt/Vegetation/Trash
Traffic: None Infiltration in structure: None
Ground surface type: Asphalt/Concrete Obstruction/deflection: 0.0
Dia./Ht. (in.): 160 VANDA Condition Rating: Level 1 - No Damage
Width (in.): 36 Prioritization Rating: Level 1 - Excellent
Material: Concrete Prioritization Rationale: Condition
Grade/rim-invert (ft.): 3.1 Illegal dumping evidence: No
Water level (%): 0

Notes

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg (°)</th>
<th>Dia. (in.)</th>
<th>Mat’l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-M14-327_MH-M14-108</td>
<td>Out</td>
<td>E</td>
<td>18H x 30W</td>
<td>CMP</td>
<td>3.1</td>
<td>0</td>
<td>10</td>
<td>Silt/Trash/Vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 2 - Minor Damage</td>
<td>Level 2 - Good</td>
<td>Condition</td>
<td>Coal tar epoxy coating missing at various places. Minor surface corrosion.</td>
</tr>
</tbody>
</table>

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.): Unknown
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:
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: Dry
Weather: 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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-Q31-300</td>
<td>Out</td>
<td>W</td>
<td>10</td>
<td>RCP</td>
<td>4</td>
<td>0</td>
<td>25</td>
<td>Vegetation</td>
<td>None</td>
<td>0</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Sediment</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

Photos

VA Project No.: 14-0195 T01 Appendix A - Asset Inventory 303
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: Dry
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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infil-tration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>JS-Q31-502_MH-Q31-102</td>
<td>In</td>
<td>S</td>
<td>48</td>
<td>RCP</td>
<td>10.5</td>
<td>5</td>
<td>0</td>
<td>None</td>
<td>Stain</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Location</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>MH-Q31-102_MH-Q31-104</td>
<td>Out</td>
<td>S</td>
<td>48</td>
<td>RCP</td>
<td>10.5</td>
<td>5</td>
<td>0</td>
<td>None</td>
<td>Stain</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Location</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

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

Appendix A - Asset Inventory
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

Legend

- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Site 24

0 0.035 0.07 0.14 Miles
**SDFA 24 - Statham Blvd**

**Culvert HW-P26-801_HW-P26-802**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/16/2014 5:11 PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address/location:</td>
<td>Oxnard Blvd</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td></td>
</tr>
<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
</tbody>
</table>

### 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

Legend
- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations

Site 25

0 0.03 0.06 0.12 Miles
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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn.</th>
<th>Dia. (in.)</th>
<th>Mat'</th>
<th>Grade/invert (ft.)</th>
<th>Wtr. Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infilt-ration</th>
<th>Obs./Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MH-Q27-101_MH-Q27-103</td>
<td>In</td>
<td>SW</td>
<td>12</td>
<td>RCP</td>
<td>6.7</td>
<td>0</td>
<td>25</td>
<td>Silt</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 3 - Fair</td>
<td>Sediment</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>MH-Q27-103_MH-Q27-105</td>
<td>In</td>
<td>S</td>
<td>12</td>
<td>VCP</td>
<td>6.7</td>
<td>0</td>
<td>25</td>
<td>Silt</td>
<td>None</td>
<td>0</td>
<td>N/A</td>
<td>Level 3 - Fair</td>
<td>Sediment</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>
**SDFA 25 - Rose Ave**

**Culvert MH-Q27-103**

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

**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 Pl

Area Map
Storm Drainage Condition Assessment
City of Oxnard

SDFA 26 - Sutter Pl

Catch Basin CB-R28-304

Evaluation date/time: 9/14/2014 1:54 PM
Address/location: Sutter Pl
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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia.</th>
<th>Mat'l</th>
<th>Rim-inv</th>
<th>Wtr Lvl</th>
<th>Sed.</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl.</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-R28-304, CB-R28-305</td>
<td>Out</td>
<td>SE</td>
<td>18</td>
<td>RCP</td>
<td>5</td>
<td>0</td>
<td>10</td>
<td>Silt/vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

Photos
SDFA 26 - Sutter Pl

*Catch Basin CB-R28-304*

**Location view**

**Catch basin**

**Sketch**

**View inside catch basin**

**View of outlet**

**View inside outlet pipe**
SDFA 26 - Sutter Pl

Catch Basin CB-R28-305

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

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

**Photos**
SDFA 26 - Sutter Pl

*Catch Basin CB-R28-305*

Location view

Catch basin

Sketch

View inside catch basin

View of outlet

View inside outlet pipe
SDFA 26 - Sutter Pl

*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 Pl

*Catch Basin CB-R28-305*

View inside inlet pipe

View inside inlet pipe
SDFA 26 - Sutter Pl

**Catch Basin CB-R28-306**

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

### General Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>34.170367</td>
</tr>
<tr>
<td>Longitude</td>
<td>-119.151492</td>
</tr>
<tr>
<td>Access</td>
<td>Good</td>
</tr>
<tr>
<td>Traffic</td>
<td>Light</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt/Concrete</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>108</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>3.5</td>
</tr>
<tr>
<td>Water level (%)</td>
<td>0</td>
</tr>
<tr>
<td>Devices</td>
<td>None</td>
</tr>
</tbody>
</table>

### Condition Information and Ratings

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susceptible to burial/overgrowth</td>
<td>No</td>
</tr>
<tr>
<td>Susceptible to ponding/flooding</td>
<td>No</td>
</tr>
<tr>
<td>Sediment/debris depth (%)</td>
<td>10</td>
</tr>
<tr>
<td>Type of sediment/debris</td>
<td>Silt/Vegetation/Trash</td>
</tr>
<tr>
<td>Infiltration in structure</td>
<td>None</td>
</tr>
<tr>
<td>Obstruction/deflection</td>
<td>0.0</td>
</tr>
<tr>
<td>VANDA Condition Rating</td>
<td>Level 1 - No Damage</td>
</tr>
<tr>
<td>Prioritization Rating</td>
<td>Level 1 - Excellent</td>
</tr>
<tr>
<td>Prioritization Rationale</td>
<td>Condition</td>
</tr>
<tr>
<td>Illegal dumping evidence</td>
<td>No</td>
</tr>
</tbody>
</table>

### Notes

Unable to remove grate at time of assessment.

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-R28-306 JS-R28-504</td>
<td>Out</td>
<td>SW</td>
<td>30</td>
<td>RCP</td>
<td>3.5</td>
<td>0</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unkown</td>
<td>Unknown</td>
<td>Level 2 - Good</td>
<td>Condition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CB-S28-306_CB-R28-306</td>
<td>In</td>
<td>SW</td>
<td>12</td>
<td>CMP</td>
<td>3.5</td>
<td>0</td>
<td>5</td>
<td>Silt/Vegetation</td>
<td>None</td>
<td>0</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Location</td>
<td>Under roadway, Moderate corrosion on invert</td>
</tr>
</tbody>
</table>

### Photos
SDFA 26 - Sutter Pl

Catch Basin CB-R28-306

Location view

Catch basin

Sketch

View inside catch basin

View inside catch basin

View of outlet
SDFA 26 - Sutter Pl

*Catch Basin CB-R28-306*

View of inlet
SDFA 26 - Sutter Pl

**Catch Basin CB-S28-306**

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

### General Information

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Access</th>
<th>Traffic</th>
<th>Ground Surface Type</th>
<th>Dia./Ht. (in.)</th>
<th>Width (in.)</th>
<th>Material</th>
<th>Grade/rim-invert (ft.)</th>
<th>Water level (%)</th>
<th>Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public</td>
<td>Good</td>
<td>Heavy</td>
<td>Asphalt/Concrete</td>
<td>72</td>
<td>36</td>
<td>Concrete</td>
<td>2.7</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

### 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
- Prioritization Rating: Level 3 - Fair
- Prioritization Rationale: Condition/Location
- Illegal dumping evidence: No
- VANDA Condition Rating: Level 3 - Moderate Damage

### Notes

- **General Information**
  - Longitude: -119.151385
  - Latitude: 34.170388
  - Propertytype: Public
  - Access: Good
  - Traffic: Heavy
  - Ground surface type: Asphalt/Concrete
  - Material: Concrete
  - Grade/rim-invert (ft.): 2.7
  - Water level (%): 0
  - Devices: None

### Pipe Connections

| Pipe          | Dir. | Hdn g | Dia. (in.) | Mat'1  | 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

VA Project No.: 14-0195 TO1  Appendix A - Asset Inventory
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
Storm Drainage Condition Assessment
City of Oxnard

**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**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-R28-301_CBR28-300</td>
<td>In</td>
<td>N</td>
<td>Unknown</td>
<td>Unknown</td>
<td>3.1</td>
<td>0</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under roadway.</td>
<td></td>
</tr>
</tbody>
</table>

**Photos**
SDFA 27 - Channel Islands Blvd

*Catch Basin CB-R28-300*

- Location view
- Catch basin
- Manhole
- View of inlet from catch basin
- Sketch

---

VA Project No.: 14-0195 T01
Appendix A - Asset Inventory
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:** 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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-R28-301_CBR28-300</td>
<td>Out</td>
<td>N</td>
<td>Unknown</td>
<td>Unknown</td>
<td>2.3</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc.</td>
<td>Under roadway.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Latitude:</th>
<th>34.173392</th>
<th>Susceptible to burial/overgrowth: No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude:</td>
<td>-119.151793</td>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Property type:</td>
<td>Public</td>
<td>Sediment/debris depth (%): 50</td>
</tr>
<tr>
<td>Access:</td>
<td>Good</td>
<td>Type of sediment/debris: Vegetation/Trash</td>
</tr>
<tr>
<td>Traffic:</td>
<td>Light</td>
<td>Infiltration in structure: None</td>
</tr>
<tr>
<td>Ground surface type:</td>
<td>Asphalt/Concrete</td>
<td>Obstruction/deflection: 0.0</td>
</tr>
<tr>
<td>Dia./Ht. (in.):</td>
<td>36</td>
<td>VANDA Condition Rating: Level 1 - No Damage</td>
</tr>
<tr>
<td>Width (in.):</td>
<td>36</td>
<td>Prioritization Rating: Level 4 - Poor</td>
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<tr>
<td>Material:</td>
<td>Concrete</td>
<td>Prioritization Rationale: Sediment/Location</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>2.3</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Devices:</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

Significant buildup of trash and debris.

### Pipe Connections

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

### 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**

<table>
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<tr>
<th>Field</th>
<th>Value</th>
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<tbody>
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<tr>
<td>Longitude</td>
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<td>Access</td>
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</tr>
<tr>
<td>Traffic</td>
<td>None</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt/Concrete</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>2.3</td>
</tr>
<tr>
<td>Water level (%)</td>
<td>0</td>
</tr>
<tr>
<td>Devices</td>
<td>None</td>
</tr>
</tbody>
</table>

**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**


**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-R28-303_JS-R28-501</td>
<td>Out</td>
<td>E</td>
<td>18</td>
<td>RCP</td>
<td>2.3</td>
<td>0</td>
<td>15</td>
<td>Silt/vegetation/trash</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

**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

Channel JS-R28-500_TS-R28-802

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

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

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

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

<table>
<thead>
<tr>
<th>Pipe Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pipe</strong></td>
</tr>
<tr>
<td>CB-L26-302 JS-L26-500</td>
</tr>
</tbody>
</table>

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

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

### Photos
SDFA 28 - Ventura Rd

Catch Basin CB-L26-303

Location view

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: Dry
Weather: 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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn (g)</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-L26-306 JS- L26-501</td>
<td>Out</td>
<td>S</td>
<td>12</td>
<td>RCP</td>
<td>2.5</td>
<td>0</td>
<td>5</td>
<td>Silt/Vegetation/Trash</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Loc ation</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

Photos
SDFA 28 - Ventura Rd

*Catch Basin CB-L26-306*

Location view

Catch basin

View inside catch basin

View inside catch basin
Storm Drainage Condition Assessment
City of Oxnard

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:** 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**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rm-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CB-L26-308 JS-L26-501</td>
<td>Out</td>
<td>N</td>
<td>12</td>
<td>RCP</td>
<td>2.5</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

**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.): 93  
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


Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Rim-inv (ft.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
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</thead>
<tbody>
<tr>
<td>CB-L26-310_JS-L26-508</td>
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<td>W</td>
<td>CMP</td>
<td>2.8</td>
<td>0</td>
<td>15</td>
<td></td>
<td>Silt/Vegetation/Trash</td>
<td>None</td>
<td>5</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Loc</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

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: Dry
Weather: 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

Legend
- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, INEGI, and the GIS User Community

Site 29

0 0.0275 0.055 0.11 Miles
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: Dry
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

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**