City of Oxnard
Public Works Integrated Master Plan
STORMWATER
PROJECT MEMORANDUM 5.3
CONDITION ASSESSMENT
REVISED FINAL DRAFT
September 2017
PREFACE

The analysis and evaluations contained in these Project Memorandum (PM) are based on data and information available at the time of the original date of publication, December 2015. After development of the December 2015 Final Draft PMs, the City continued to move forward on two concurrent aspects: 1) advancing the facilities planning for the water, wastewater, recycled water, and stormwater facilities; and 2) developing Updated Cost of Service (COS) Studies (Carollo, 2017) for the wastewater/collection system and the water/distribution system. The updated 2017 COS studies contain the most recent near-term Capital Improvement Projects (CIP). The complete updated CIP based on the near-term and long-term projects is contained in the Brief History and Overview of the City of Oxnard Public Works Department’s Integrated Planning Efforts: May 2014 – August 2017 section.

At the time of this Revised PWIMP, minor edits were also incorporated into the PMs. Minor edits included items such as table title changes and updating reports that were completed after the December 2015 original publication date.
City of Oxnard
Public Works Integrated Master Plan

STORMWATER

PROJECT MEMORANDUM 5.3
CONDITION ASSESSMENT

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APPENDIX A – STORM DRAINAGE CONDITION ASSESSMENT
1.0 INTRODUCTION

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

Please note in this revised final draft version, the J Street Drain was changed to Tsumas Creek, and Oxnard Industrial Drain was changed to Ormond Lagoon Waterway.

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.
Executive Summary

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

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

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

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

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

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

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

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

<table>
<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 2-1. VANDA™ Reinforced Concrete Condition Index Rating System

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

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

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

<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></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></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></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></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>
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></td>
<td>No rating</td>
<td>Not enough information was available to assign a rating.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Excellent Failure unlikely in the foreseeable future. Reassess on a 15-year interval.</td>
<td>Minor or no defects</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Good Reassess on a 10-year interval.</td>
<td>Defects that have not begun to deteriorate</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Fair Reassess on a 5-year interval and consider conducting repairs.</td>
<td>Moderate defects that will continue to deteriorate</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Poor Prioritize for rehabilitation within 5 years.</td>
<td>Severe defects</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Immediate Attention Repair or replace immediately.</td>
<td>Defect requires immediate action</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_TSL27-800</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>
<td>75</td>
<td>Level 1 - No Damage</td>
<td>Level 5 - Immediate Attention</td>
<td>Sediment/Location</td>
<td></td>
</tr>
<tr>
<td>8 PL-024-1200_PL-024-308</td>
<td>CB-024-308</td>
<td>Unknown</td>
<td>Unknown</td>
<td>100</td>
<td>Unknown</td>
<td>Level 5 - Immediate Attention</td>
<td>Condition/Sediment</td>
<td></td>
</tr>
<tr>
<td>8 CB-024-302_CB-024-300</td>
<td>CB-024-302</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>
<td></td>
</tr>
<tr>
<td>8 CR-024-801_MH-024-100</td>
<td>CB-024-304</td>
<td>18H x 30W</td>
<td>CMP</td>
<td>10</td>
<td>Level 4 - Severe/Significant Damage</td>
<td>Level 4 - Poor</td>
<td>Condition</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.

### Table 3-2. Number of Evaluated Features Prioritized

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<th>Prioritization Rating</th>
<th>Number of Features</th>
<th>Percentage of Features</th>
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<td>5</td>
<td>8</td>
<td>2.6%</td>
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<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>
<tr>
<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>
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<tr>
<td>Minor</td>
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<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>MH-H31-100_MIS-H31-800</td>
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</table>
SDFA 1 - Ventura Blvd

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

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

### Notes

Unable to remove grate at time of assessment.

### Pipe Connections

<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/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<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>0</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under roadway.</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: Weather: Dry

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

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

Notes
Unable to remove grate at time of assessment.

Pipe Connections
<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>
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<tr>
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<td>0</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under parking lot.</td>
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</tbody>
</table>

Photos
SDFA 1 - Ventura Blvd

*Catch Basin CB-O13-318*

Location view

Catch basin
### SDFA 1 - Ventura Blvd

**Catch Basin CB-O13-323**

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

**General Information**

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

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<th>Susceptible to burial/overgrowth:</th>
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<tr>
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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>
<td>Infiltration in structure:</td>
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<tr>
<td>Obstruction/deflection:</td>
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<tr>
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</tr>
<tr>
<td>Prioritization Rating:</td>
<td>Level 3 - Fair</td>
</tr>
<tr>
<td>Prioritization Rationale:</td>
<td>Condition/Location</td>
</tr>
<tr>
<td>Illegal dumping evidence:</td>
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</table>

**Notes**

Located within heavily congested traffic area, was not able to access to evaluate.
SDFA 1 - Ventura Blvd

Catch Basin CB-O13-326

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

General Information

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

Condition Information and Ratings

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

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

Photos
SDFA 1 - Ventura Blvd

**Catch Basin CB-O13-342**

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

### General Information

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### Condition Information and Ratings

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<td>Obstruction/deflection:</td>
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<td>Illegal dumping evidence:</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: Dry

General Information

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<td>Longitude:</td>
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<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>
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<tr>
<td>Dia./Ht. (in.):</td>
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<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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<td>Type of sediment/debris</td>
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Notes

Pipe Connections

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<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>
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<td>CMP</td>
<td>4.2</td>
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<td>Silt</td>
<td>None</td>
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<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>
<td>2</td>
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<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>
</tr>
</tbody>
</table>
## 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>Obs/Dfl. (%)</th>
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<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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</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>
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<td>0</td>
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<td>Level 5 - Immediate Attention</td>
<td>Condition/Sediment</td>
<td>Blocked with sediment. Coating missing at various places and minor corrosion on CMP.</td>
</tr>
</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
SDFA 1 - Ventura Blvd

*Catch Basin CB-P14-300*

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe

View of inlets

View of bottom inlet
SDFA 1 - Ventura Blvd

Catch Basin CB-P14-300

View inside bottom inlet pipe

View inside bottom inlet pipe

View inside bottom inlet pipe

View of top inlet

View inside top inlet

View inside top inlet
SDFA 1 - Ventura Blvd

*Catch Basin CB-P14-300*

View inside top inlet

View inside top inlet

View inside top inlet

View inside top inlet
SDFA 1 - Ventura Blvd

Channel IN-O13-1000_JS-O13-525

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

General Information
Latitude: 34.23313
Longitude: -119.171984
Property type: Unknown
Access: Unknown
Traffic: Unknown
Ground surface type: Unknown
Dia./Ht. (in.): Unknown
Width (in.): 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: Unknown

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

Photos
Location View
### SDFA 1 - Ventura Blvd

**Flood Zone FL 1**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/17/2014 4:03 PM</th>
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<tbody>
<tr>
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<td>Ventura Blvd</td>
</tr>
<tr>
<td>Map grid reference:</td>
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</tr>
<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
</tbody>
</table>

**General Information**

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

**Condition Information and Ratings**

| Susceptible to burial/overgrowth: | N/A |
| Susceptible to ponding/flooding:  | Yes |
| 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 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](image_url)
Storm Drainage Condition Assessment
City of Oxnard

SDFA 2 - Ventura Rd and Channel Islands 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 2

0 0.05 0.1 0.2 Miles

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

**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>Night Site</td>
<td>Asphalt/Concrete</td>
<td>160</td>
<td>36</td>
<td>Concrete</td>
<td>4.3</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

**Condition Information and Ratings**

- **Latitude:** 34.175806
- **Longitude:** -119.194536
- **Property type:** Public
- **Access:** Good
- **Traffic:** Night Site
- **Ground surface type:** Asphalt/Concrete
- **Dia./Ht. (in.):** 160
- **Width (in.):** 36
- **Material:** Concrete
- **Grade/rim-invert (ft.):** 4.3
- **Water level (%):** 0

**Prioritization Rating:** Level 2 - Minor Damage

**VANDA Condition Rating:** Level 2 - Minor Damage

**Prioritization Rationale:** Condition

**Illegal dumping evidence:** No

**Devices:** None

**Notes**

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>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-L27-306_GB-L27-801</td>
<td>Out</td>
<td>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 - Significant Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

**Photos**
SDFA 2 - Ventura Rd and Channel Islands Blvd

**Catch Basin CB-L27-306**

![Location view](image)

![Catch basin](image)

![Sketch](image)

![Catch basin chimney](image)

![View inside catch basin](image)

![View inside catch basin](image)
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
Storm Drainage Condition Assessment
City of Oxnard

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

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Wtr Lvl (ft.)</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>
</tr>
</thead>
<tbody>
<tr>
<td>CB-L27-308</td>
<td>Out</td>
<td>NW</td>
<td>12H x 18W</td>
<td>CMP</td>
<td>4</td>
<td>0</td>
<td>25 Vegetation/Trash</td>
<td>None</td>
<td>0</td>
<td>Level 2 - Minor Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc ation/ Sede nt</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

Photos
SDFA 2 - Ventura Rd and Channel Islands Blvd

Catch Basin CB-L27-308

Location view

Catch basin

View inside catch basin

View inside catch basin

View inside catch basin

View inside catch basin
SDFA 2 - Ventura Rd and Channel Islands Blvd

*Catch Basin CB-L27-308*

View inside catch basin
SDFA 2 - Ventura Rd and Channel Islands Blvd

Culvert MH-L27-100

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

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/Ofl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>G8-L27-801_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>
</tr>
<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_TS-L27-800 | Out | W | 18H x 30W | CMP | 6.4 | 5 | 0 | None | None | 15 | Level 4 - Severe/Significant Damage | Level 4 - Poor | Condition/Location | Four outlet CMPs with same shape and dimensions. Significant corrosion and perforations at invert of all pipes. Outlet B is deflected 15%. |

### Photos

- **Location view**
- **View inside manhole**
- **Sketch**

VA Project No.: 14-0195 T01
SDFA 2 - Ventura Rd and Channel Islands Blvd

Culvert MH-L27-100

- View of outlet A
- View of outlet B
- View of outlet B
- View inside outlet B
- View inside outlet B
- View inside outlet B
SDFA 2 - Ventura Rd and Channel Islands Blvd

Culvert MH-L27-100

View inside outlet B

View inside outlet B

View inside outlet B

View inside outlet B

View of outlet C

View inside outlet C
SDFA 2 - Ventura Rd and Channel Islands Blvd

Culvert MH-L27-100

View inside outlet C

View inside outlet C

View inside outlet C

View inside outlet C

View inside outlet C

View inside outlet C
SDFA 2 - Ventura Rd and Channel Islands Blvd

Culvert MH-L27-100

View inside outlet C

View inside outlet C

View inside outlet C

View inside outlet C

View of outlet D

View of outlet D
SDFA 2 - Ventura Rd and Channel Islands Blvd

Culvert MH-L27-100

View of E inlet

View of E inlet

View of E inlet

View of E inlet

View of S inlet

View of S inlet
SDFA 2 - Ventura Rd and Channel Islands Blvd

Culvert MH-L27-100

View of S inlet

View of S inlet

View of S inlet

View of S inlet
**SDFA 2 - Ventura Rd and Channel Islands Blvd**

**Flood Zone FL 2**

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

<table>
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<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude: 34.175602</td>
<td>Susceptible to burial/overgrowth: No</td>
</tr>
<tr>
<td>Longitude: -119.194751</td>
<td>Susceptible to ponding/flooding: Yes</td>
</tr>
<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%):</td>
</tr>
<tr>
<td>Access: Good</td>
<td>Type of sediment/debris: N/A</td>
</tr>
<tr>
<td>Traffic: Heavy</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.):</td>
<td>Prioritization Rating: Level 3 - Fair</td>
</tr>
<tr>
<td>Material: N/A</td>
<td>Prioritization Rationale: Location/Other</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%): 0</td>
<td></td>
</tr>
<tr>
<td>Devices: N/A</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

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

**Photos**

- [Location View](#)
Area Map

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

Site 3

Source: V&A
### General Information

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude:</td>
<td>34.175742</td>
</tr>
<tr>
<td>Longitude:</td>
<td>-119.186318</td>
</tr>
<tr>
<td>Property type:</td>
<td>Public</td>
</tr>
<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>
</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>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>25</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 3 - Fair</td>
</tr>
<tr>
<td>Prioritization Rationale:</td>
<td>Sediment</td>
</tr>
<tr>
<td>Illegal dumping evidence:</td>
<td>No</td>
</tr>
</tbody>
</table>

### Notes

Lid was corroded shut.

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg</th>
<th>Dia.</th>
<th>Mat'</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-M27-304_MH-M27-102</td>
<td>Out</td>
<td>SE</td>
<td>10H</td>
<td>CMP</td>
<td>2.1</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition Coating in good condition, but appears there may be external corrosion on the CMP. Under roadway.</td>
<td></td>
</tr>
</tbody>
</table>

### Photos

VA Project No.: 14-0195 T01
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

**General Information**

- **Latitude:** 34.175731
- **Longitude:** -119.186103
- **Property type:** Public
- **Access:** Good
- **Traffic:** Heavy
- **Ground surface type:** Asphalt/Concrete/Sand

**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

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'I</th>
<th>Rim-inv (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>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>Sediment/Location</td>
<td>Coal tar epoxy coated.</td>
</tr>
</tbody>
</table>

**Notes**

Cracking in concrete walls of catch basin. Connected to 10H x 12W CMP. Significant buildup of trash and debris.
SDFA 3 - J St

*Catch Basin CB-M27-305*

Location view

Catch Basin

View inside catch basin

View inside outlet pipe

View of outlet
SDFA 3 - J St

*Catch Basin CB-M27-306*

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

### General Information

<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>36</td>
<td>36</td>
<td>Concrete</td>
<td>2.2</td>
<td></td>
<td>None</td>
</tr>
</tbody>
</table>

### Condition Information and Ratings

- **Latitude:**
- **Longitude:**
- **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

<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/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-M27-306, M27-102</td>
<td>Out</td>
<td>SW</td>
<td>10</td>
<td>CMP</td>
<td>2.2</td>
<td>0</td>
<td>10</td>
<td>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>
</tbody>
</table>

### Photos
SDFA 3 - J St

Catch Basin CB-M27-306

Location view

Catch basin

Sketch

View inside catch basin

View inside catch basin

View of outlet
SDFA 3 - J St

*Catch Basin CB-M27-306*

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe
SDFA 3 - J St

**Catch Basin CB-M28-302**

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

**General Information**

<table>
<thead>
<tr>
<th>Latitude</th>
<th>34.173478</th>
<th>Susceptible to burial/overgrowth: No</th>
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<tbody>
<tr>
<td>Longitude</td>
<td>-119.185545</td>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Property type</td>
<td>Public</td>
<td>Sediment/debris depth (%): 10</td>
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<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 1 - Excellent</td>
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<tr>
<td>Material</td>
<td>Concrete</td>
<td>Prioritization Rationale: Condition</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>2.7</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**

- Minor cracking in catch basin structure wall.

**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>
</tr>
</thead>
<tbody>
<tr>
<td>CB-M28-302 JS-M28-502</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:  
Weather: Dry

### General Information

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<th>Latitude:</th>
<th>34.173338</th>
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<tr>
<td>Longitude:</td>
<td>-119.185503</td>
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<tr>
<td>Property type:</td>
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<td>Sediment/debris depth (%):</td>
<td>0</td>
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<tr>
<td>Access:</td>
<td>Good</td>
<td>Type of sediment/debris</td>
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<tr>
<td>Traffic:</td>
<td>Light</td>
<td>Infiltration in structure:</td>
<td>None</td>
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<tr>
<td>Ground surface type:</td>
<td>Asphalt/Concrete</td>
<td>Obstruction/deflection:</td>
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<td>Dia./Ht. (in.):</td>
<td>36</td>
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<td>Level 1 - No Damage</td>
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<tr>
<td>Width (in.):</td>
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<td>Prioritization Rating:</td>
<td>Level 2 - Good</td>
</tr>
<tr>
<td>Material:</td>
<td>Concrete</td>
<td>Prioritization Rationale:</td>
<td>Condition/Other</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>
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<td></td>
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</tr>
<tr>
<td>Devices:</td>
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<td></td>
</tr>
</tbody>
</table>

**Notes**

No access point.

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Mat'l</th>
<th>Dir. (in.)</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>MH-N28-104 JS-JS- M28-502</td>
<td>In/Ou t</td>
<td>W 36</td>
<td>RCB</td>
<td>4</td>
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<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 sidewalk and roadway.</td>
<td></td>
</tr>
</tbody>
</table>

**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: Dry
Weather: Weather: Dry

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-M28-304 JS-M28-503</td>
<td>Out</td>
<td>SE</td>
<td>10H x 12W</td>
<td>CMP</td>
<td>2.1</td>
<td>0</td>
<td>Unknown</td>
<td>Unknown</td>
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<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under roadway.</td>
<td></td>
</tr>
</tbody>
</table>

Photos
SDFA 3 - J St

Catch Basin CB-M28-304

Location view

Catch basin

View inside catch basin

View inside catch basin

View of outlet
SDFA 3 - J St

Manhole MH-M27-101

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

General Information
Latitude: 34.175667
Longitude: -119.186232
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.4
Water level (%): 0
Devices: None

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

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

Pipe Connections

<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-M27-304_MH-M27-102</td>
<td>In</td>
<td>S</td>
<td>12</td>
<td>RCP</td>
<td>2.4</td>
<td>0</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/Location</td>
<td>Under roadway.</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>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-M27-305_MH-M27-102</td>
<td>In</td>
<td>S</td>
<td>12</td>
<td>RCP</td>
<td>2.4</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>
### Manhole MH-M27-101

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

### Photos

- [Location view](image)
- [Access point](image)
- [Hole](image)
- [Sketch](image)
SDFA 3 - J St

Manhole MH-M27-101

View of outlet

View of outlet

View of inlet

View of north inlet

View of inlets

View of north west inlet
SDFA 3 - J St

*Manhole MH-M27-101*

View of east inlet
SDFA 4 - Maulhardt Rd

Area Map
SDFA 4 - Maulhardt Rd

Channel JS-U30-502_IN-U30-1002

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

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

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

Notes

Pipe Connections

<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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<tbody>
<tr>
<td>IN-U30-1001_IN-U30-501</td>
<td>In</td>
<td>36</td>
<td>Concrete</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>Silt/Vegetation</td>
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<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td></td>
<td></td>
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</tbody>
</table>

IN-U30-1002_IN-U31-1000 | Out | Unknown | Unknown | Unknown | Unknown | Unknown | Level 3 - Fair | Condition/Loc of Area is history of flooding. |
### SDFA 4 - Maulhardt Rd

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

| Pipe | Dir. | Hdg | Dia. | Mat’l | Rim-inv | Wtr Lvl | Sed. (% | Sed. Type | Infil-tration | Obs/Dfl. (% | VANDA Rating | Priority Rating | Priority Rationale | Notes |
|------|------|-----|------|-------|---------|---------|--------|--------|-------------|-------------|--------------|----------------|-----------------|-----------------|------|
| JS-U30-501_JS-U30-502 | In | 36 | Dirt | 2 | 5 | 0 | Silt/Vegetation | None | 0 | Level 1 - No Damage | Level 1 - Excellent | Condition |
| JS-U31-500_JS-U31-501 | Out | Unkn | Unknow | n | Unkn | n | Unkn | n | Unkn | Level 3 - Fair | Condition/Loc | Unable to access to evaluate. Area has history of flooding. |
| JS-U31-501_DL-V31-800 | Out | Unkn | Unknow | n | Unkn | n | Unkn | n | Unkn | Level 3 - Fair | Condition/Loc | Unable to access to evaluate. Area has history of flooding. |
| RR-U31-800_JS-U31-500 | Out | Unkn | Unknow | n | Unkn | n | Unkn | n | Unkn | Level 3 - Fair | Condition/Loc | Unable to access to evaluate. Area has history of flooding. |

**Photos**

![View of channel](image1.jpg)

![View of upstream channel](image2.jpg)
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**

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<th>9/15/2014 5:33 PM</th>
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<tr>
<td>Weather</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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<td>Ground surface type</td>
<td>Asphalt/Concrete/Grass/Dirt</td>
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<tr>
<td>Dia./Ht. (in.)</td>
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<tr>
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<td>Material</td>
<td>CMP</td>
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<td>Grade/rim-invert (ft.)</td>
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<tr>
<td>Water level (%)</td>
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<td>Devices</td>
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### Condition Information and Ratings

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<tr>
<td>Sediment/debris depth (%)</td>
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<td>Silt/Vegetation/Trash</td>
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<td>Infiltration in structure</td>
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<td>Obstruction/deflection</td>
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<td>VANDA Condition Rating</td>
<td>Level 3 - Moderate Damage</td>
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<td>Prioritization Rating</td>
<td>Level 4 - Poor</td>
</tr>
<tr>
<td>Prioritization Rationale</td>
<td>Condition/Location</td>
</tr>
<tr>
<td>Illegal dumping evidence</td>
<td>No</td>
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</tbody>
</table>

### 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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<th>9/15/2014 5:43 PM</th>
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<td>Weather:</td>
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<table>
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<th>General Information</th>
<th>Condition Information and Ratings</th>
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<tbody>
<tr>
<td>Latitude:</td>
<td>Susceptible to burial/overgrowth: No</td>
</tr>
<tr>
<td>Longitude:</td>
<td>Susceptible to ponding/flooding: Yes</td>
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<tr>
<td>Property type:</td>
<td>Sediment/debris depth (%): 5</td>
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<tr>
<td>Access:</td>
<td>Type of sediment/debris: Silt</td>
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<tr>
<td>Traffic:</td>
<td>Infiltration in structure: None</td>
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<tr>
<td>Ground surface type:</td>
<td>Obstruction/deflection: 0</td>
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<td>Dia./Ht. (in.):</td>
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<td>Width (in.):</td>
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<td>Water level (%):</td>
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<td>Devices:</td>
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<table>
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<tr>
<th>Prioritization Rating</th>
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</thead>
<tbody>
<tr>
<td>VANDA Condition Rating</td>
<td>Level 3 - Moderate Damage</td>
</tr>
<tr>
<td>Prioritization Rationale</td>
<td>Condition/Location</td>
</tr>
<tr>
<td>Illegal dumping evidence</td>
<td>No</td>
</tr>
</tbody>
</table>

**Notes**

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

**Photos**
SDFA 4 - Maulhardt Rd

Culvert IN-U30-1000_JS-U30-501

Location view

Catch basin

Sketch

View of outlet

View of outlet

View downstream
**SDFA 4 - Maulhardt Rd**

**Flood Zone FL 4**

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

**General Information**

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

**Condition Information and Ratings**

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

**Notes**

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

**Photos**

Location View
SDFA 5 - Perkins Rd

Area Map

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

Site 5

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

Site 5

Legend
- Stormwater Condition Assessment Site Locations
- Old Infrastructure - Catch Basins
- Old Infrastructure - Open Channels
- Old Infrastructure - Pipes
- City Observed Flooding Locations
SDFA 5 - Perkins Rd

**Catch Basin CB-N36-301**

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

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

### Condition Information and Ratings
- **Susceptible to burial/overgrowth:** No
- **Susceptible to ponding/flooding:** Yes
- **Sediment/debris depth (%):**
- **Type of sediment/debris:** Unknown
- **Infiltration in structure:** Unknown
- **Obstruction/deflection:**
- **VANDA Condition Rating:** Unknown
- **Prioritization Rating:** Level 3 - Fair
- **Prioritization Rationale:** Other
- **Illegal dumping evidence:** No
- **Longitude:** -119.184194
- **Latitude:** 34.138727
- **Devices:** None
- **Illegal dumping evidence:** No
- **General Information**
- **Condition Information and Ratings**
- **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>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-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>Level 3 - Fair</td>
<td>Location/Other</td>
<td>Area has history of flooding. May be influenced by tide.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Photos

VA Project No.: 14-0195 T01
SDFA 5 - Perkins Rd

Catch Basin CB-N36-301

Catch basin

Vault

Debris screen

View inside catch basin

Catch basin flooded
SDFA 5 - Perkins Rd

*Catch Basin CB-N36-302*

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

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

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

### Notes
Unable to locate. May be within condemned area.

### Photos
- Location view
- Location view
## SDFA 5 - Perkins Rd

### Flood Zone FL 5

<table>
<thead>
<tr>
<th>Evaluation date/time</th>
<th>9/15/2014 1:55 PM</th>
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<td>Perkins Rd</td>
</tr>
<tr>
<td>Map grid reference</td>
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<tr>
<td>Weather</td>
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### General Information

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<td>Traffic</td>
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</tr>
<tr>
<td>Ground surface type</td>
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</tr>
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<td>Width (in.)</td>
<td></td>
</tr>
<tr>
<td>Material</td>
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</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td></td>
</tr>
<tr>
<td>Water level (%)</td>
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</tr>
<tr>
<td>Devices</td>
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</tr>
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</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>

### Prioritization Rationale

- Other

### Property type

- Public

### Condition Information and Ratings

- VANDA Condition Rating: N/A
- Prioritization Rating: Level 3 - Fair
- Prioritization Rationale: Other
- Illegal dumping evidence: No

### Notes

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

### Photos

---

VS Project No.: 14-0195 T01

Appendix A - Asset Inventory
SDFA 5 - Perkins Rd

Flood Zone FL 5

Location View
SDFA 6 - 2nd St

Area Map
Storm Drainage Condition Assessment
City of Oxnard

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: Dry
Weather:

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

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

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

Pipe Connections

<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>
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</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
Priority Rating: Level 1 - Excellent
Prioritization Rationale: Condition
Illegal dumping evidence: No

Notes

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
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<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>
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<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>Level 3 - Fair</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc.</td>
<td>Notes</td>
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<td></td>
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<td></td>
<td></td>
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<td></td>
<td>Under residences. Unable to evaluate due to placement within catch basin.</td>
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<tr>
<td>CB-L21-300_JS-L21-500</td>
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<td>W</td>
<td>26H x 54W</td>
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<td>None</td>
<td>None</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
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</table>
SDFA 6 - 2nd St

**Catch Basin CB-L21-300**

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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/Dft. (%)</th>
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<tr>
<td>CB-L21-301_CB-L21-300</td>
<td>In</td>
<td>W</td>
<td>24</td>
<td>RCP</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>
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</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

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<th>Mat'</th>
<th>Wtr Lvl (ft.)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltration</th>
<th>Obs/Defl. (%)</th>
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<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
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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: Dry
Weather: Weather: Dry

Notes
Resident stated area has history of flooding over curb.

Pipe Connections

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<th>Pipe</th>
<th>Dir.</th>
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<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>
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<td>Condition</td>
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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

*Catch Basin CB-P23-317*

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

### 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

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<th>Hdn. (in.)</th>
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<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>
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<th>Priority Rating</th>
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### Photos

VA Project No.: 14-0195 T01
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: 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

Condition Information and Ratings
Susceptible to burial/overgrowth:
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: Absence
Illegal dumping evidence: Unknown

Notes
Unable to locate.

Pipe Connections

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<tr>
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<th>Dir.</th>
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<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>
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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
- **Weather:** Dry

### General Information

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<th>Water level (%)</th>
<th>Devices</th>
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<tr>
<td>Public</td>
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<td>Asphalt/Concrete</td>
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### Condition Information and Ratings

- **VANDA Condition Rating:** Unknown
- **Prioritization Rating:** Level 3 - Fair
- **Prioritization Rationale:** Absence
- **Illegal dumping evidence:** Unknown
- **Susceptible to burial/overgrowth:** Unknown
- **Susceptible to ponding/flooding:** Unknown
- **Sediment/debris depth (%):** Unknown
- **Infiltration in structure:** Unknown
- **Obstruction/deflection:** 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>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>
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<td>In</td>
<td>S</td>
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<td>Unknown</td>
<td>Unknown</td>
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</table>
## SDFA 7 - Wooley Rd

### Catch Basin CB-P24-300

<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>
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<th>Priority Rating</th>
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<td>Unknown</td>
<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Absence</td>
<td>Unable to locate</td>
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</table>

### Photos

![Location view](image)

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

**General Information**

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<th>Value</th>
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<td>Traffic</td>
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<td>Width (in.)</td>
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</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
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<tr>
<td>Water level (%)</td>
<td>0</td>
</tr>
<tr>
<td>Devices</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>
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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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**Condition Information and Ratings**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<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>50</td>
</tr>
<tr>
<td>Type of sediment/debris</td>
<td>Silt/Vegetation</td>
</tr>
<tr>
<td>Infiltration in structure</td>
<td>None</td>
</tr>
<tr>
<td>Obstruction/deflection</td>
<td>0</td>
</tr>
<tr>
<td>VANDA Condition Rating</td>
<td>Level 1 - No Damage</td>
</tr>
<tr>
<td>Prioritization Rating</td>
<td>Level 4 - Poor</td>
</tr>
<tr>
<td>Prioritization Rationale</td>
<td>Sediment/Location</td>
</tr>
<tr>
<td>Illegal dumping evidence</td>
<td>No</td>
</tr>
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</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>
</tr>
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<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
Latitude: 34.190247
Longitude: -119.164667
Property type: Public
Access: Good
Traffic: None
Ground surface type: Concrete
Dia./Ht. (in.): 18
Width (in.): 12
Material: N/A
Grade/rim-invert (ft.): 1.9
Water level (%): 0
Devices: None

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

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

Pipe Connections

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

Photos

VA Project No.: 14-0195 T01
SDFA 7 - Wooley Rd

*Catch Basin CB-P24-303*

Location view

Sketch

Catch basin

View inside catch basin

View inside inlet pipe

View inside outlet pipe
SDFA 7 - Wooley Rd

**Catch Basin CB-P24-307**

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

### General Information

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<tr>
<th>Field</th>
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<tr>
<td>Latitude:</td>
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</tr>
<tr>
<td>Longitude:</td>
<td>-119.164689</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>
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</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>
<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>None</td>
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### Condition Information and Ratings

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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</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>
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</tr>
<tr>
<td>Type of sediment/debris</td>
<td>Silt/Vegetation/Trash</td>
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<tr>
<td>Infiltration in structure:</td>
<td>None</td>
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<tr>
<td>Obstruction/deflection:</td>
<td>0</td>
</tr>
<tr>
<td>VANDA Condition Rating:</td>
<td>Level 1 - No Damage</td>
</tr>
<tr>
<td>Prioritization Rating:</td>
<td>Level 2 - Good</td>
</tr>
<tr>
<td>Prioritization Rationale:</td>
<td>Condition</td>
</tr>
<tr>
<td>Illegal dumping evidence:</td>
<td>No</td>
</tr>
</tbody>
</table>

### Notes

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

### Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir</th>
<th>Hdn g</th>
<th>Dia. (in.):</th>
<th>Mat'</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-P24-307_CB-P24-307</td>
<td>In</td>
<td>S</td>
<td>18</td>
<td>RCP</td>
<td>4.9</td>
<td>0</td>
<td>5</td>
<td>Vegetation/Trash</td>
<td>None</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
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<tr>
<td>CB-P24-307_J5-P24-502</td>
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<td>W</td>
<td>18</td>
<td>RCP</td>
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<td>0</td>
<td>5</td>
<td>Vegetation/Trash</td>
<td>None</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
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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>
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<tr>
<th>Evaluation date/time:</th>
<th>9/16/2014 9:20 AM</th>
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<tr>
<td>Address/location:</td>
<td>Pacific Ave</td>
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<tr>
<td>Map grid reference:</td>
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<tr>
<td>Weather:</td>
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### General Information

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<td>Property type:</td>
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<td>Access:</td>
<td>Good</td>
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<tr>
<td>Traffic:</td>
<td>None</td>
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<tr>
<td>Ground surface type:</td>
<td>Asphalt</td>
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<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>
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<tr>
<td>Water level (%):</td>
<td>0</td>
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### Condition Information and Ratings

<table>
<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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<td>Type of sediment/debris</td>
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</tr>
<tr>
<td>Infiltration in structure:</td>
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<tr>
<td>Obstruction/deflection:</td>
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<tr>
<td>VANDA Condition Rating:</td>
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<td>Prioritization Rating:</td>
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<td>Prioritization Rationale:</td>
<td>Absence</td>
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<td>Illegal dumping evidence:</td>
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### Notes

Does not exist.

### Photos

- Location View
SDFA 7 - Wooley Rd

Manhole MH-P24-103

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

Weather:

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

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

Notes

Pipe Connections

<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/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-P24-103, 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>
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<td>Level 1 - Excellent</td>
<td>Condition</td>
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</tr>
<tr>
<td>MH-P24-103_JS-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/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>
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</table>

Photos
SDFA 7 - Wooley Rd

Manhole MH-P24-103

Location view

Sketch

View inside manhole

View of outlet

View inside outlet pipe

View inside outlet pipe
SDFA 7 - Wooley Rd

Manhole MH-P24-103

View inside outlet pipe

View inside outlet pipe

View of inlet

View inside inlet pipe

View inside inlet pipe

View inside inlet pipe
SDFA 8 - Wooley Rd

Area Map

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

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

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

Notes
Connected to two 10H x 18W CMP.

Pipe Connections

<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>Infiltration</th>
<th>Obd/Defl (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
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<tbody>
<tr>
<td>CB-O24-300ibia-O24-102</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>
</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>
</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**

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

**Condition Information and Ratings**

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

**Notes**

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

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir. 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>
</tr>
</tbody>
</table>

**Photos**
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: Weather: Dry

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

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

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

Pipe Connections

<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>CR-O24-801_MH-O24-100</td>
<td>Out</td>
<td>SW</td>
<td>18H x 30W</td>
<td>CMP</td>
<td>3.1</td>
<td>0</td>
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<td>0</td>
<td>Level 4 - Severe/Significant Damage</td>
<td>Level 4 - Poor</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
|
| Pipe | Dir. | Hdn g | Dia. (in.) | Matl | Rim-inv (ft.) | Wtr Lvl (%) | Sed. (%) | Sed. Type | Infiltration | Obs/Defl (%) | VANDA Rating | Priority Rating | Priority Rationale | Notes |
|------|------|-------|------------|------|---------------|-------------|----------|-----------|--------------|---------------|--------------|----------------|------------------|------------------|-------|
| CB-O24-308_CMP_O24-104 | Out S | CMP | 12H x 18W | 1.1 | 0 | 5 | Silt | Unknow n | | | Level 2 - Minor Damage | Level 3 - Fair | Condition/Loc ation | Under roadway. |
| PL-O24-1200_PL-O24-1201 | In SW | Unknown | Unknown | 1.1 | 0 | 100 | Trash/Vegetation | Unknown | | | Level 5 - Immediate Attention | Condition/Sed iment | Under roadway. Unknown if there is actually a pipe present. |       |

Photos
SDFA 8 - Wooley Rd

Catch Basin CB-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_

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

<table>
<thead>
<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude: 34.189861</td>
<td>Susceptible to burial/overgrowth: No</td>
</tr>
<tr>
<td>Longitude: -119.173787</td>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%): 75</td>
</tr>
<tr>
<td>Access: Good</td>
<td>Type of sediment/debris: Trash</td>
</tr>
<tr>
<td>Traffic: Heavy</td>
<td>Infiltration in structure: None</td>
</tr>
<tr>
<td>Ground surface type: Asphalt/Grass/Dirt</td>
<td>Obstruction/deflection: 0.0</td>
</tr>
<tr>
<td>Dia./Ht (in.): 36</td>
<td>VANDA Condition Rating: Level 1 - No Damage</td>
</tr>
<tr>
<td>Width (in.): 36</td>
<td>Prioritization Rating: Level 5 - Immediate Attention</td>
</tr>
<tr>
<td>Material: Concrete</td>
<td>Prioritization Rationale: Sediment/Location</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.): 3</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%): 0</td>
<td>Devices: None</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/Dft. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-O24-310_J5-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: Dry
Weather: Weather: Dry

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. 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-O24-101</td>
<td>Out</td>
<td>Unkown</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>
</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

General Information
Latitude: 34.189861
Longitude: -119.172542
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 30

Condition Information and Ratings
Latitude: Susceptible to burial/overgrowth: No
Longitude: Susceptible to ponding/flooding: No
Property type: Sediment/debris depth (%): 5
Access: Type of sediment/debris: Silt/Rock
Traffic: Infiltration in structure: None
Ground surface type: Obstruction/deflection: 0.0
Dia./Ht. (in.): VANDA Condition Rating: Level 2 - Minor Damage

Width (in.): Prioritization Rating: Level 3 - Fair
Material: Prioritization Rationale: Condition/Location
Grade/rim-invert (ft.): 7.5
Water level (%): 5
Devices: None

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>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>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>None</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>Unkown</td>
<td>Unkown</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>None</td>
<td>Level 2 - Minor Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Location</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

VA Project No.: 14-0195 T01
## SDFA 8 - Wooley Rd

### Culvert MH-O24-103

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

### Photos

- **Location view**
- **Sketch**
- **View inside manhole**
- **View inside manhole**
SDFA 8 - Wooley Rd

_Culvert MH-O24-103_

View of W pipe

View of W pipe

View of W pipe

View of 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: Dry
- 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
- **Material:** Concrete
- **Grade/rim-invert (ft.):** 8.3
- **Width (in.):**
- **Water level (%):** 0
- **Devices:** None

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

### Notes

### Pipe Connections

| Pipe | Dir. | Hdn. | 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 | Unkn. | 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 | Unkn. | 36 | RCB | 8.3 | 0 | 5 | Silt | Stain | 0 | Level 2 - Minor Damage | Level 2 - Good | Condition | Under roadway. |
### SDFA 9 - Channel Islands Blvd

#### Culvert MH-P28-106

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

#### Photos

- **Location view**
- **Sketch**
- **View inside manhole**
- **View of E box culvert**
SDFA 9 - Channel Islands Blvd

Culvert MH-P28-106

View of E box culvert

View of E box culvert

View of E box culvert

View of E box culvert

View of E box culvert

View of E box culvert
SDFA 9 - Channel Islands Blvd

Culvert MH-P28-106

View of E box culvert

View of E box culvert

View of E box culvert

View of E box culvert

View of inlet pipe

View of inlet pipe
SDFA 9 - Channel Islands Blvd

Culvert MH-P28-106

View of inlet pipe

View of inlet pipe

View of inlet pipe

View of W box culvert

View of W box culvert

View of W box culvert
SDFA 9 - Channel Islands Blvd

**Culvert MH-P28-106**

View of W box culvert

View of W box culvert

View of W box culvert

View of W box culvert
**SDFA 9 - Channel Islands Blvd**

**Flood Zone FL 9**

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

**General Information**

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

**Condition Information and Ratings**

- **Susceptible to burial/overgrowth:** N/A
- **Susceptible to ponding/flooding:** Yes
- **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 3 - Fair
- **Prioritization Rationale:** Other
- **Illegal dumping evidence:** No

**Notes**

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

**Photos**

Location View
SDFA 10 - Squires Dr

Area Map

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

Site 10

0 0.1 0.2 0.4 Miles
SDFA 10 - Squires Dr

Catch Basin CB-P32-306

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

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

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>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>IN-032-100, MH-P32-100</td>
<td>Out</td>
<td>Unknown</td>
<td>Unknown</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/Location</td>
<td>Under roadway.</td>
<td></td>
</tr>
</tbody>
</table>

Photos
SDFA 10 - Squires Dr

Catch Basin CB-P32-308

Evaluation date/time: 9/15/2014 10:30 AM
Address/location: Howell Rd
Map grid reference: 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
Devices: None

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

Notes
Drains directly into culvert.

Pipe Connections

<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>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-P32-308-MH-P33-101</td>
<td>Out</td>
<td>S</td>
<td>30H x 48W</td>
<td>CMP</td>
<td>3</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>
</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>
</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: Weather: Dry

General Information
Latitude: 34.152524
Longitude: -119.17089
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete

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>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-P33-305_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:**
- **Weather:** Dry

### General Information

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<tr>
<th>Latitude</th>
<th>34.151849</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Longitude</td>
<td>-119.17031</td>
<td>Susceptible to ponding/flooding: Yes</td>
</tr>
<tr>
<td>Property type</td>
<td>Public</td>
<td>Sediment/debris depth (%): 10</td>
</tr>
<tr>
<td>Access</td>
<td>Good</td>
<td>Type of sediment/debris Silt/Trash</td>
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<tr>
<td>Traffic</td>
<td>None</td>
<td>Infiltration in structure: None</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt/Concrete</td>
<td>Obstruction/deflection: 0</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>36</td>
<td>VANDA Condition Rating: Level 2 - Minor Damage</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>36</td>
<td>Prioritization Rating: Level 2 - Good</td>
</tr>
<tr>
<td>Material</td>
<td>Concrete</td>
<td>Prioritization Rationale: Condition</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>3.2</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Devices</td>
<td>Debris/Trash Rack</td>
<td></td>
</tr>
</tbody>
</table>

### 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>Hdg (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-P33-308_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
Storm Drainage Condition Assessment
City of Oxnard

SDFA 10 - Squires Dr

Catch Basin CB-P33-308

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

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

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

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

Pipe Connections

<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-P33-307_CB-P33-308</td>
<td>In</td>
<td>SW</td>
<td>24 CMP</td>
<td></td>
<td>3.3</td>
<td>5</td>
<td>5</td>
<td>Silt/Trash</td>
<td>None</td>
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<td>Level 4 - Severe/Significant Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>CB-P33-308_JSM-P33-504</td>
<td>Out</td>
<td>SW</td>
<td>24 CMP</td>
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<td>3.3</td>
<td>5</td>
<td>5</td>
<td>Silt/Trash</td>
<td>None</td>
<td>0</td>
<td>Level 4 - Severe/Significant Damage</td>
<td>Level 4 - Poor</td>
<td>Condition</td>
<td></td>
</tr>
</tbody>
</table>

Photos
SDFA 10 - Squires Dr

*Catch Basin CB-P33-308*

Location view

Catch basin

Sketch

View inside catch basin

Trash rack

View inside catch basin
SDFA 10 - Squires Dr

Catch Basin CB-P33-308

View inside outlet pipe

View inside outlet pipe
SDFA 11 - Jefferson Square

Area Map
SDFA 11 - Jefferson Square

Catch Basin CB-P32-310

Evaluation date/time: 9/15/2014 11:15 AM
Address/location: Longfellow Way
Map grid reference: 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 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>
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<tbody>
<tr>
<td>CB-P32-310_CBP32-311</td>
<td>Out</td>
<td>S</td>
<td>18</td>
<td>RCP</td>
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<td>5</td>
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<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
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<td>GB-P32-803_CBP32-310</td>
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<td>18</td>
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<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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</tbody>
</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
- **Longitude:** -119.168272
- **Property type:** Public
- **Access:** Good
- **Traffic:** None
- **Ground surface type:** Asphalt/Concrete
- **Dia./Ht. (in.):** 36
- **Width (in.):** 36
- **Material:** Concrete
- **Grade/rim-invert (ft.):** 7.4
- **Water level (%):** 0
- **Devices:** None

### Condition Information and Ratings
- **VANDA Condition Rating:** Level 1 - No Damage
- **Prioritization Rating:** Level 1 - Excellent
- **Prioritization Rationale:** Condition

### Notes

### Pipe Connections

<table>
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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>
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<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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<tr>
<td>CB-P32-310_CB-P32-311</td>
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<td>18</td>
<td>RCP</td>
<td>7.4</td>
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<td>5</td>
<td>Trash/Vegetation</td>
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<td>Unknown</td>
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<td>CB-P32-311_JS_P31-500</td>
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<td>RCP</td>
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<td>Trash/Vegetation</td>
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<td>Unknown</td>
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<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
SDFA 11 - Jefferson Square

Catch Basin CB-P33-300

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

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

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

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

Photos

Location view
Catch basin
SDFA 11 - Jefferson Square

Catch Basin CB-P33-303

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

Weather: Weather: Dry

General Information
Latitude: 34.152943
Longitude: -119.168122
Property type: Private
Access: Good
Traffic: None
Ground surface type: None
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>
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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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<tbody>
<tr>
<td>CB-P33-300_CB-P33-303</td>
<td>In</td>
<td>SW</td>
<td>8 RCP</td>
<td>2.75</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>
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<td></td>
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<tr>
<td>CB-P33-303_JS-P33-500</td>
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<td>SW</td>
<td>8 RCP</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>
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Photos
SDFA 11 - Jefferson Square

Catch Basin CB-P33-303

Location view

Catch basin

Sketch

View inside catch basin

View inside outlet pipe

View inside inlet pipe
SDFA 11 - Jefferson Square

Catch Basin CB-P33-304

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

<table>
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<tr>
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<th>Condition Information and Ratings</th>
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<tbody>
<tr>
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<td>Susceptible to burial/overgrowth: No</td>
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<tr>
<td>Longitude: -119.16883</td>
<td>Susceptible to ponding/flooding: No</td>
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<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%):</td>
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<td>Access: Good</td>
<td>Type of sediment/debris: Unknown</td>
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<tr>
<td>Traffic: None</td>
<td>Infiltration in structure: Unknown</td>
</tr>
<tr>
<td>Ground surface type: Asphalt/Concrete</td>
<td>Obstruction/deflection:</td>
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<tr>
<td>Dia./Ht. (in.): 72</td>
<td>VANDA Condition Rating: Unknown</td>
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<tr>
<td>Width (in.): 36</td>
<td>Prioritization Rating: Level 2 - Good</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.): 4</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>Devices: None</td>
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</table>

Notes

Pipe Connections

<table>
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<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>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-P33-304 TS-P33-800</td>
<td>Out</td>
<td>S</td>
<td>Unknown</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>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Photos

VA Project No.: 14-0195 T01
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

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

**Condition Information and Ratings**
- **Susceptible to burial/overgrowth:** No
- **Susceptible to ponding/flooding:** No
- **Sediment/debris depth (%):** 5
- **Type of sediment/debris:** Silt/Vegetation
- **Infiltration in structure:** None
- **Obstruction/deflection:** 0.0
- **VANDA Condition Rating:** Level 1 - No Damage
- **Prioritization Rating:** Level 1 - Excellent
- **Prioritization Rationale:** Condition
- **Illegal dumping evidence:** No
- **Longitude:** -119.168358
- **Latitude:** 34.152439

**Notes**
Unable to remove grate. Chained closed.

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn g</th>
<th>Dia. (in.)</th>
<th>Material</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-P33-306, TS-P33-800</td>
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<td>SW</td>
<td>Unkown</td>
<td>Unkown</td>
<td>7</td>
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<td>Unknown</td>
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<td>Unknown</td>
<td>Unkown</td>
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<td>Condition</td>
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<tr>
<td>JS-P33-500, CB-P33-306</td>
<td>In</td>
<td>S</td>
<td>Unkown</td>
<td>Unkown</td>
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<td>Unkown</td>
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<td>Level 2 - Good</td>
<td>Condition</td>
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</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

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

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

Notes
Pipe joint appears to be offset.

Photos
SDFA 11 - Jefferson Square

Culvert CB-P32-309

Culvert

View inside pipe

View inside pipe
SDFA 12 - Edison Dr

Area Map

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

Site 12
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: Dry
Weather: Dry

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

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

Notes

Pipe Connections

<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>Infilt-ration</th>
<th>Obs/Defl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
</table>
| CB-P36-300_CB-P36-301 | Out | S | 24H x 36W | RCB | 2.3 | 10 | 0 | None | None | 0 | Level 1 - No Damage | Level 1 - Excellent | Condition | Under roadway.

Photos
SDFA 12 - Edison Dr

**Catch Basin CB-P36-300**

- **Location view**
- **Catch basin**
- **Sketch**
- **View inside catch basin**
- **View inside catch basin**
- **View inside catch basin**
SDFA 12 - Edison Dr

*Catch Basin CB-P36-300*

View inside outlet
SDFA 12 - Edison Dr

**Catch Basin CB-P36-301**

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

**Pipe Connections**

<table>
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<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>
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<tbody>
<tr>
<td>CB-P36-301_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>
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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>Under roadway.</td>
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</table>

| CB-P36-301_HW-P36-800 | Out | E | 24H x 36W | RCB | 2.3 | 40 | 0 | None | None | 0 | Level 1 - No Damage | Level 1 - Excellent | Condition | Under roadway. |

**Notes**

- Connected to two 24H x 36W box culverts.

**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: Dry

**General Information**

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<tr>
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<tbody>
<tr>
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<td>-119.16677</td>
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<tr>
<td>Access:</td>
<td>Good</td>
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<tr>
<td>Traffic:</td>
<td>None</td>
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<tr>
<td>Ground surface type:</td>
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<tr>
<td>Dia./Ht. (in.):</td>
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<td>Width (in.):</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**

<table>
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<tr>
<th>VANDA Condition Rating:</th>
<th>Level 1 - No Damage</th>
</tr>
</thead>
<tbody>
<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**

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>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/Dfl. (%)</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**

VA Project No.: 14-0195 T01
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*

Legend

- **Stormwater Condition Assessment Site Locations**
- **Old Infrastructure - Catch Basins**
- **Old Infrastructure - Open Channels**
- **Old Infrastructure - Pipes**
- **City Observed Flooding Locations**
SDFA 13 - Mandalay Bay

**Catch Basin CB-E25-300**

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

### General Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<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. (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/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</td>
<td>W</td>
<td>36</td>
<td>CMP</td>
<td>4.2</td>
<td>5</td>
<td>10</td>
<td>Silt/Rock</td>
<td>None</td>
<td>5</td>
<td>5</td>
<td>Level 3 - Moderate Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</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:** Dry

**General Information**

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

**Condition Information and Ratings**

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

**Notes**

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

**Pipe Connections**

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

**Photos**
SDFA 13 - Mandalay Bay

**Catch Basin CB-E25-301**

Location view

Catch basin

Sketch

View inside catch basin

View of outlet

View inside outlet pipe
SDFA 13 - Mandalay Bay

Catch Basin CB-E25-301

View inside outlet pipe

View inside outlet pipe

View of inlet

View inside inlet pipe
**SDFA 13 - Mandalay Bay**

**Flood Zone FL 13**

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

### General Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>34.173435</td>
</tr>
<tr>
<td>Longitude</td>
<td>-119.15132</td>
</tr>
<tr>
<td>Property type</td>
<td>Public</td>
</tr>
<tr>
<td>Ground surface type</td>
<td>Asphalt/Sand</td>
</tr>
<tr>
<td>Dia./Ht. (in.)</td>
<td>N/A</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>N/A</td>
</tr>
<tr>
<td>Material</td>
<td>N/A</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>N/A</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

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

### Photos

- **Location View**
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: Dry

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

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

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

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-F23-300_CB-F23-301</td>
<td>Out</td>
<td>E</td>
<td>36</td>
<td>RCP</td>
<td>4.9</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 14 - Canal St

*Catch Basin CB-F23-300*

- Location view
- Sketch
- View inside of outlet
- View inside outlet pipe
- Catch basin
- View inside catch basin
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
Latitude: 34.191513
Longitude: -119.235842
Property type: Public
Access: Good
Traffic: None
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 94
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 5.3
Water level (%): 0
Devices: None

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

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

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg 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-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>
<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-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>
</tbody>
</table>
**SDFA 14 - Canal St**

*Catch Basin CB-F23-301*

<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/Dft. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>N Outlet</td>
<td>Out</td>
<td>E</td>
<td>48</td>
<td>RCP</td>
<td>5.3</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></td>
</tr>
<tr>
<td>S Outlet</td>
<td>Out</td>
<td>E</td>
<td>48</td>
<td>RCP</td>
<td>5.3</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></td>
</tr>
</tbody>
</table>

**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 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: Weather: Dry

**General Information**

<table>
<thead>
<tr>
<th>Latitude:</th>
<th>Longitude:</th>
<th>Property type:</th>
<th>Access:</th>
<th>Traffic:</th>
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<tbody>
<tr>
<td>34.191245</td>
<td>-119.233568</td>
<td>Public</td>
<td>Good</td>
<td>None</td>
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</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>No</td>
</tr>
<tr>
<td>Sediment/debris depth (%):</td>
<td>5</td>
</tr>
<tr>
<td>Type of sediment/debris:</td>
<td>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>
</tbody>
</table>

**Prioritization Rationale:** Condition

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

**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-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**

VA Project No.: 14-0195 T01  Appendix A - Asset Inventory 178
SDFA 14 - Canal St

*Catch Basin CB-F23-302*

**Location view**

**Catch basin**

**Sketch**

**View inside catch basin**

**View inside outlet pipe**

**View inside catch basin**
SDFA 15 - Wooley Rd

Area Map
SDFA 15 - Wooley Rd

Catch Basin CB-M24-300

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

<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>Light</td>
<td>Asphalt/Concrete</td>
<td>117</td>
<td>36</td>
<td>Concrete</td>
<td>4.2</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 (%): 10.0
- 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

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

### 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/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>
<td>4.2</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. Water ponding at low point.</td>
</tr>
</tbody>
</table>

### Photos

VA Project No.: 14-0195 T01
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: Dry
Weather: 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

<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-M24-300_CB-M24-302</td>
<td>In</td>
<td>12</td>
<td>RCP</td>
<td>0</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>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CB-M24-301_CB-M24-302</td>
<td>In</td>
<td>18</td>
<td>RCP</td>
<td>6.2</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>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Under roadway, Water ponding at low point.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SDFA 15 - Wooley Rd

**Catch Basin CB-M24-302**

<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-M24-302</td>
<td>Out</td>
<td>S</td>
<td>Unknown</td>
<td>Unknown</td>
<td>6</td>
<td>0</td>
<td></td>
<td>Unknown</td>
<td>Unknown</td>
<td></td>
<td></td>
<td></td>
<td>Level 3 - Fair</td>
<td>Condition/Location</td>
</tr>
</tbody>
</table>

**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>
</tr>
</thead>
<tbody>
<tr>
<td>Address/location:</td>
<td>Ilena St</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td></td>
</tr>
<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
</tbody>
</table>

### General Information

<table>
<thead>
<tr>
<th>Latitude:</th>
<th>34.190376</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude:</td>
<td>-119.188228</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></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-M24-304

Location view
### SDFA 15 - Wooley Rd

**Catch Basin CB-M24-306**

<table>
<thead>
<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude: 34.190537</td>
<td>Susceptible to burial/overgrowth: N/A</td>
</tr>
<tr>
<td>Longitude: -119.187369</td>
<td>Susceptible to ponding/flooding: N/A</td>
</tr>
<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%): N/A</td>
</tr>
<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: n/a</td>
</tr>
<tr>
<td>Dia./Ht. (in.): N/A</td>
<td>VANDA Condition Rating: N/A</td>
</tr>
<tr>
<td>Width (in.):</td>
<td>Prioritization Rating: Level 2 - Good</td>
</tr>
<tr>
<td>Material: N/A</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 (%): 0</td>
<td></td>
</tr>
<tr>
<td>Devices: N/A</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

Does not exist.

**Photos**

![Location view](image1)

![Location view](image2)
SDFA 15 - Wooley Rd

_Catch Basin CB-M24-306_

Location view
Storm Drainage Condition Assessment
City of Oxnard

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: Weather: Dry

**General Information**
Latitude: 34.190344
Longitude: -119.186511
Property type: Public
Access: Good
Traffic: Light

**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 1 - Excellent
- Prioritization Rationale: Condition
- Illegal dumping evidence: No
- VANDA Condition Rating: Level 1 - No Damage
- VANDA Condition Rating: Level 1 - No Damage
- Material: Concrete
- Width (in.): 36
- Dia./Ht. (in.): 120

**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>Width (in.)</th>
<th>Dia./Ht. (in.)</th>
<th>Wtr Lvl (%)</th>
<th>Sed. (%)</th>
<th>Sed. Type</th>
<th>Infiltr. Obs/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-M24-307_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>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-M24-308_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>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**

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

View inside inlet pipe
SDFA 15 - Wooley Rd

**Catch Basin CB-M24-310**

<table>
<thead>
<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation date/time:  9/16/2014 10:30 AM</td>
<td>Susceptible to burial/overgrowth:  N/A</td>
</tr>
<tr>
<td>Address/location:  King St</td>
<td>Susceptible to ponding/flooding:  N/A</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td>Sediment/debris depth (%):</td>
</tr>
<tr>
<td>Weather:  Dry</td>
<td>Type of sediment/debris:  N/A</td>
</tr>
<tr>
<td></td>
<td>Infiltration in structure:  N/A</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:  N/A</td>
</tr>
<tr>
<td>Access:  Good</td>
<td>Prioritization Rating:  Level 2 - Good</td>
</tr>
<tr>
<td>Traffic:  None</td>
<td>Prioritization Rationale:  Absence</td>
</tr>
<tr>
<td>Property type:  Public</td>
<td>Illegal dumping evidence:  No</td>
</tr>
<tr>
<td>Ground surface type:  Asphalt/Concrete</td>
<td></td>
</tr>
<tr>
<td>Width (in.):</td>
<td></td>
</tr>
<tr>
<td>Material:  N/A</td>
<td></td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td></td>
</tr>
<tr>
<td>Water level (%):  0</td>
<td></td>
</tr>
<tr>
<td>Devices:  N/A</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

Does not exist.

**Photos**

![Location view](image1)

![Location view](image2)
### 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

<table>
<thead>
<tr>
<th>Latitude:</th>
<th>34.190301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude:</td>
<td>-119.184687</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></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

<table>
<thead>
<tr>
<th>Susceptible to burial/overgrowth:</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susceptible to ponding/flooding:</td>
<td>N/A</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>N/A</td>
</tr>
<tr>
<td>VANDA Condition Rating:</td>
<td>N/A</td>
</tr>
<tr>
<td>Prioritization Rating:</td>
<td>Level 2 - Good</td>
</tr>
<tr>
<td>Prioritization Rationale:</td>
<td>Absence</td>
</tr>
<tr>
<td>Illegal dumping evidence:</td>
<td>No</td>
</tr>
</tbody>
</table>

#### Notes

Does not exist.

#### Photos

- [Location view](image1)
- [Location view](image2)
SDFA 15 - Wooley Rd

*Catch Basin CB-M24-313*

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

**General Information**

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

**Condition Information and Ratings**

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

**Notes**

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

**Pipe Connections**

<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/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 - Serious/Significant Damage</td>
<td>Level 5 - Immediate Attention</td>
<td>Condition/Location</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**

<table>
<thead>
<tr>
<th>Latitude</th>
<th>34.190204</th>
</tr>
</thead>
<tbody>
<tr>
<td>Longitude</td>
<td>-119.186318</td>
</tr>
<tr>
<td>Property type</td>
<td>Public</td>
</tr>
<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>
</tbody>
</table>

**Condition Information and Ratings**

<table>
<thead>
<tr>
<th>Dia./Ht. (in.)</th>
<th>36</th>
</tr>
</thead>
<tbody>
<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>6.2</td>
</tr>
<tr>
<td>Water level (%)</td>
<td>0</td>
</tr>
</tbody>
</table>

**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-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>
<td>0</td>
<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>Under roadway.</td>
</tr>
</tbody>
</table>

**Notes**

**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

View inside inlet pipe
## SDFA 15 - Wooley Rd

### Catch Basin CB-M24-318

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/16/2014 1:30 PM</th>
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<tbody>
<tr>
<td>Address/location:</td>
<td>W Wooley Rd</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td></td>
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<tr>
<td>Weather:</td>
<td>Dry</td>
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</table>

### General Information

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<td>-119.189343</td>
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<tr>
<td>Property type:</td>
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<tr>
<td>Access:</td>
<td>Good</td>
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<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>
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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

<table>
<thead>
<tr>
<th>Susceptible to burial/overgrowth:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Susceptible to ponding/flooding:</td>
<td>N/A</td>
</tr>
<tr>
<td>Sediment/debris depth (%)</td>
<td>N/A</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>N/A</td>
</tr>
<tr>
<td>VANDA Condition Rating:</td>
<td>N/A</td>
</tr>
<tr>
<td>Prioritization Rating:</td>
<td>Level 2 - Good</td>
</tr>
<tr>
<td>Prioritization Rationale:</td>
<td>Absence</td>
</tr>
<tr>
<td>Illegal dumping evidence:</td>
<td>No</td>
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### 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: Dry

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

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

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/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-N24-300</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*

View inside catch basin

View inside catch basin

Sketch

Location view

Catch basin

Catch Basin CB-N24-300
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: Dry
Weather: 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>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/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>
<td>5</td>
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<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 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: Dry
Weather: Dry

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

### Condition Information and Ratings
- **Susceptible to burial/overgrowth:** No
- **Susceptible to ponding/flooding:** No
- **Sediment/debris depth (%):** 5
- **Type of sediment/debris:** Vegetation/Trash
- **Infiltration in structure:** None
- **Obstruction/deflection:** 0.0
- **VANDA Condition Rating:** Level 1 - No Damage
- **Prioritization Rating:** Level 1 - Excellent
- **Prioritization Rationale:** Condition
- **Illegal dumping evidence:** No
- **Longitude:** -119.183636
- **Latitude:** 34.190311
- **Obstruction/deflection:** 0.0

### 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-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**

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

**Condition Information and Ratings**

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

**Notes**

Connected to 36-inch and 24-inch RCP.

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg</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/Dfl. (%)</th>
<th>VANDA Rating</th>
<th>Priority Rating</th>
<th>Priority Rationale</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB-N24-303</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>
</tr>
<tr>
<td>PL-N24-1200.PL-N24-1201</td>
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<td>E</td>
<td>24</td>
<td>RCP</td>
<td>6.75</td>
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<td>35</td>
<td>Level 2 - Minor Damage</td>
<td>Level 2 - Good</td>
<td>Condition/Sediment</td>
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</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

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: Dry
Weather: Weather: Dry

Notes
Unable to remove grate at time of assessment.

General Information
Latitude: 34.190344
Longitude: -119.181125
Property type: Public
Access: Good
Traffic: Night Site
Ground surface type: Asphalt
Dia./Ht. (in.): 108
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 3.6
Water level (%): 5
Devices: None

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

Pipe Connections

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir. Hdg (°)</th>
<th>Dia. (in.)</th>
<th>Matt’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>CB-N24-300_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>
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<td>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</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>0</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:** 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
- Longitude: -119.180503
- Latitude: 34.190236

**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>
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</thead>
<tbody>
<tr>
<td>CB-N24-306 JS-N24-500</td>
<td>Out</td>
<td>S</td>
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<td>2.3</td>
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<td>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc.ation</td>
<td>Under roadway.</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:** Dry
- **Weather:**

### General Information

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<td>Longitude</td>
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</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>
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</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>2.5</td>
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<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 (%): 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
- Longitude: -119.178722
- Latitude: 34.190215
- Susceptible to ponding/flooding: Yes
- Susceptible to burial/overgrowth: 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>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-N24-307 JS-N24-502</td>
<td>Out</td>
<td>SE</td>
<td>12</td>
<td>RCP</td>
<td>2.5</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 2 - Good</td>
<td>Condition/Loc</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

### Photos

VA Project No.: 14-0195 T01
SDFA 15 - Wooley Rd

*Catch Basin CB-N24-307*

---

**Location view**

**Catch basin**

**Sketch**

**View inside catch basin**

**View inside catch basin**

**View inside catch basin**
SDFA 15 - Wooley Rd

Catch Basin CB-N24-307

View inside catch basin

View inside outlet pipe
SDFA 15 - Wooley Rd

Catch Basin CB-N24-308

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

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

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

Notes
Connected to 18-inch RCP.

Pipe Connections

<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-N24-308_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>
</tbody>
</table>

Photos

VA Project No.: 14-0195 T01
SDFA 15 - Wooley Rd

*Catch Basin CB-N24-308*

- Location view
- Sketch
- View of outlet
- View inside outlet pipe
- Catch basin
- View inside catch basin
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
Latitude: 34.190118
Longitude: -119.179022
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 72
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 7
Water level (%): 0
Devices: None

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

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

Pipe Connections

<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-N24-309</td>
<td>Out</td>
<td>S</td>
<td>18</td>
<td>RCP</td>
<td>7</td>
<td>50</td>
<td>Vegetation</td>
<td>Unknown</td>
<td></td>
<td></td>
<td>Level 4 - Poor</td>
<td>Condition/Sediment</td>
<td>Under roadway.</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
Latitude: 34.19015
Longitude: -119.178421
Property type: Public
Access: Good
Traffic: Heavy
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 36
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 8.5
Water level (%): 0
Devices: None

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

Notes

Pipe Connections

<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>JS-N24-101_JS-N24-501</td>
<td>In</td>
<td>W</td>
<td>Unkown</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 ation</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>MH-N24-501_JS-N24-104</td>
<td>Out</td>
<td>W</td>
<td>Unkown</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 ation</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 outlet pipe

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 15 - Wooley Rd

Catch Basin CB-N24-310

View inside inlet pipe

View inside inlet pipe

View inside inlet pipe
SDFA 15 - Wooley Rd

**Manhole MH-M24-103**

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

### General Information

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

### Condition Information and Ratings

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<tr>
<th>Susceptible to burial/overgrowth</th>
<th>Unknown</th>
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</thead>
<tbody>
<tr>
<td>Susceptible to ponding/flooding</td>
<td>Unknown</td>
</tr>
<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>
<td>Unknown</td>
</tr>
<tr>
<td>VANDA Condition Rating</td>
<td>Unknown</td>
</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>
</tr>
</tbody>
</table>

### 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>MH-M24-103_MH-M24-103</td>
<td>Out</td>
<td>Unkn</td>
<td>Unknown</td>
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<td>Unkn</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under roadway. Unable to locate access point.</td>
</tr>
<tr>
<td>TS-N24-803_MH-M24-105</td>
<td>Out</td>
<td>Unkn</td>
<td>Unkn</td>
<td>Unkn</td>
<td>Unkn</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under roadway. Unable to locate access point.</td>
</tr>
</tbody>
</table>

### Photos
SDFA 16 - Fournier St

Area Map

Legend
- Red: Stormwater Condition Assessment Site Locations
- Yellow: Old Infrastructure - Catch Basins
- Green: Old Infrastructure - Open Channels
- Purple: Old Infrastructure - Pipes
- Blue: City Observed Flooding Locations

Site 16

VA Project No.: 14-0195 T01
Appendix A - Asset Inventory 233
SDFA 16 - Fournier St

**Catch Basin CB-P29-300**

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

**General Information**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>34.168242</td>
</tr>
<tr>
<td>Longitude</td>
<td>-119.170482</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>地面表面类型</td>
<td>Asphalt/Concrete</td>
</tr>
<tr>
<td>直径/高度 (in.)</td>
<td>82</td>
</tr>
<tr>
<td>材料</td>
<td>Concrete</td>
</tr>
<tr>
<td>坡度/底缘 (ft.)</td>
<td>2.3</td>
</tr>
<tr>
<td>水位 (%)</td>
<td>0</td>
</tr>
<tr>
<td>设备</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: Vegetation/Trash
- Infiltration in structure: None
- Obstruction/deflection: 0.0
- VANDA Condition Rating: Level 1 - No Damage
- Prioritization Rating: Level 1 - Excellent
- Prioritization Rationale: Condition
- Illegal dumping evidence: No

**Notes**

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

**Pipe Connections**

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

**Photos**
SDFA 16 - Fournier St

Catch Basin CB-P29-300

Location view

Catch basin

Sketch

View inside catch basin

View of concrete wall

View inside catch basin
SDFA 16 - Fournier St

*Catch Basin CB-P29-300*

View of outlet

View inside outlet pipe

View inside outlet pipe

View of inlet

View inside inlet pipe

View inside inlet pipe
SDFA 16 - Fournier St

**Catch Basin CB-P29-301**

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

**General Information**

<table>
<thead>
<tr>
<th>Property type:</th>
<th>Public</th>
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</thead>
<tbody>
<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>82</td>
</tr>
<tr>
<td>Width (in.):</td>
<td>24</td>
</tr>
<tr>
<td>Material:</td>
<td>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>2.2</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           | 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>
</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>
</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
SDFA 16 - Fournier St

*Catch Basin CB-P29-301*

View inside outlet pipe
SDFA 16 - Fournier St

Culvert JS-P29-501_JS-P29-504

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

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

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

**Notes**
Unable to access to evaluate.

**Photos**

*Location View*
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

0 0.075 0.15 0.3 Miles

VA Project No.: 14-0195 T01
Appendix A - Asset Inventory
SDFA 17 - Etting Rd

Manhole MH-S30-109

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

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

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

Notes

Pipe Connections

<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>MH-S30-109_MH-S30-108</td>
<td>In</td>
<td>E</td>
<td>30H x 48W</td>
<td>CMP</td>
<td>11.5</td>
<td>0</td>
<td>15</td>
<td>Silt/Gravel</td>
<td>None</td>
<td></td>
<td></td>
<td>Level 3 - Moderate Damage</td>
<td>Arched CMP with moderate corrosion at areas where coal tar coating is missing. Under roadway.</td>
<td></td>
</tr>
<tr>
<td>MH-S30-110_MH-S30-109</td>
<td>Out</td>
<td>E</td>
<td>30H x 48W</td>
<td>CMP</td>
<td>11.5</td>
<td>0</td>
<td>15</td>
<td>Silt/Gravel</td>
<td>None</td>
<td></td>
<td></td>
<td>Level 4 - Poor</td>
<td>Arched CMP with moderate corrosion at areas where coal tar coating is missing. Under roadway.</td>
<td></td>
</tr>
</tbody>
</table>

Photos

VA Project No.: 14-0195 T01
SDFA 17 - Etting Rd

Manhole MH-S30-109

Location view

View inside manhole

View inside manhole

Sketch. North arrow is actually pointing West.

View inside outlet pipe

View inside outlet pipe
SDFA 17 - Etting Rd

Manhole MH-S30-109

View inside outlet pipe

View inside outlet pipe

View inside inlet pipe

View inside inlet pipe

View inside inlet pipe

View inside inlet pipe
SDFA 17 - Etting Rd

Manhole MH-S30-109

View inside inlet pipe

View inside inlet pipe

View inside inlet pipe
SDFA 18 - Hill St

Catch Basin CB-K25-300

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

General Information

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

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

Pipe Connections

| 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-K25-300_JS-K25-500 | Out | SW | 18H x 92W | RCB | 2.5 | 5 | 5 | Silt/Vegetation/Trash | None | 0 | Level 1 - No Damage | Level 1 - Excellent | Condition | Under roadway. |
| MH-K25-100_CB-K25-300 | In | SW | 18 | RCP | 2.3 | 5 | 0 | None | None | 0 | Level 1 - No Damage | Level 1 - Excellent | Condition | 

Photos
SDFA 18 - Hill St

*Catch Basin CB-K25-300*

- Location view
- Catch basin
- Sketch
- View inside catch basin
- View of inlet
### SDFA 18 - Hill St

**Catch Basin CB-K25-301**

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

#### General Information

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<tr>
<td>Longitude:</td>
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<tr>
<td>Property type:</td>
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<tr>
<td>Access:</td>
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<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>
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<tr>
<td>Width (in.):</td>
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<tr>
<td>Material:</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>
<td>Devices:</td>
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#### Condition Information and Ratings

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></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>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

#### 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-K25-301 JS-K25-500</td>
<td>Out</td>
<td>W</td>
<td>18</td>
<td>RCP</td>
<td>2.6</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>
</tbody>
</table>

#### Photos

VA Project No.: 14-0195 TO1
SDFA 18 - Hill St

*Catch Basin CB-K25-301*

- Catch basin
- View inside catch basin
- View of inlet
- View inside pipe from inlet
Storm Drainage Condition Assessment

City of Oxnard

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

**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

**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>In/O</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>
</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

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: Dry

Weather: Dry

General Information
Latitude: 34.181246
Longitude: -119.194815
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt/Concrete
Dia./Ht. (in.): 120
Width (in.): 36
Material: Concrete
Grade/rim-invert (ft.): 2.8
Water level (%): 0

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

Notes
Moderate buildup of debris and trash.

Pipe Connections

<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>Infilt.</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</td>
<td>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>
</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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluation date/time:</td>
<td>9/18/2014 5:16 AM</td>
</tr>
<tr>
<td>Address/location:</td>
<td>E Pacific Coast Hwy south of Date St</td>
</tr>
<tr>
<td>Map grid reference:</td>
<td></td>
</tr>
<tr>
<td>Weather:</td>
<td>Dry</td>
</tr>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td>Latitude:</td>
<td>34.182994</td>
</tr>
<tr>
<td>Longitude:</td>
<td>-119.168444</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>Dirt</td>
</tr>
<tr>
<td>Dia./Ht. (in.):</td>
<td></td>
</tr>
<tr>
<td>Width (in.):</td>
<td></td>
</tr>
<tr>
<td>Material:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>4</td>
</tr>
<tr>
<td>Water level (%):</td>
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</tr>
<tr>
<td>Devices:</td>
<td>Headwall</td>
</tr>
<tr>
<td><strong>Condition Information and Ratings</strong></td>
<td></td>
</tr>
<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></td>
</tr>
<tr>
<td>Type of sediment/debris</td>
<td>Unknown</td>
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<tr>
<td>Infiltration in structure:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Obstruction/deflection:</td>
<td></td>
</tr>
<tr>
<td>VANDA Condition Rating:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Prioritization Rating:</td>
<td>Level 3 - Fair</td>
</tr>
<tr>
<td>Prioritization Rationale:</td>
<td>Condition/Location</td>
</tr>
<tr>
<td>Illegal dumping evidence:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Notes**

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

**Photos**

![Location view](image1)

![Location view](image2)
SDFA 19 - Pacific Coast Hwy

*Culvert MIS-P25-812_JS-P25-509*

Location view
SDFA 19 - Pacific Coast Hwy

**Manhole MH-P25-108**

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

**General Information**  
Latitude: 34.183016  
Longitude: -119.168572  
Property type: Public  
Access: Good  
Traffic: Night Site  
Ground surface type: Asphalt  
Dia./Ht. (in.): 72  
Width (in.): 36  
Material: Concrete  
Grade/rim-invert (ft.): 8.4  
Water level (%): 5  
Devices: None

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

**Notes**  
Broken flap gate at bottom of manhole.

**Pipe Connections**

<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>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-P25-500_MH-P25-108_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>
<td></td>
</tr>
<tr>
<td>MH-P25-108_MIS-P25-807_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>
<td></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 inside outlet pipe

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe
Legend
- **Red**: Stormwater Condition Assessment Site Locations
- **Orange**: Old Infrastructure - Catch Basins
- **Green**: Old Infrastructure - Open Channels
- **Purple**: Old Infrastructure - Pipes
- **Light Blue**: City Observed Flooding Locations

**Site 20**

0 0.05 0.1 0.2 Miles
**Storm Drainage Condition Assessment**

**City of Oxnard**

**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:** Dry

### General Information

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tr>
<td>Latitude</td>
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<tr>
<td>Longitude</td>
<td>-119.175696</td>
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<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>72</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</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 (%): 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
- Legal dumping evidence: No
- Devices: None

### 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>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>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/Loc. 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:  
Weather: Dry

**General Information**

<table>
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<th>Parameter</th>
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</tr>
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<td>-119.175782</td>
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<td>Property type</td>
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</tr>
<tr>
<td>Access</td>
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</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>72</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></td>
</tr>
<tr>
<td>Devices</td>
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</tr>
<tr>
<td>Water level (%)</td>
<td></td>
</tr>
</tbody>
</table>

**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 3 - Fair
- Prioritization Rationale: Condition
- Illegal dumping evidence: No

**Notes**

Unable to evaluate due to erosion control devices in place.

**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdn. g</th>
<th>Dia. (in.)</th>
<th>Material</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>In</td>
<td>In</td>
<td>SW</td>
<td>12</td>
<td>CMP</td>
<td>0</td>
<td>20</td>
<td>Trash/Silt</td>
<td>None</td>
<td>Level 2 - Minor Damage</td>
<td>0</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc/Level 3 - Fair</td>
<td>Under roadway,</td>
<td></td>
</tr>
<tr>
<td>Out</td>
<td>Out</td>
<td>SE</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>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc</td>
<td>Under roadway,</td>
<td></td>
</tr>
</tbody>
</table>

**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: Dry

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

Condition Information and Ratings
Susceptible to burial/overgrowth: No
Susceptible to ponding/flooding: No
Sediment/debris depth (%): 5
Type of sediment/debris: 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.</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>Inlet</td>
<td>In</td>
<td>SE</td>
<td>24</td>
<td>CMP</td>
<td>6.2</td>
<td>5</td>
<td>0</td>
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<td>None</td>
<td>None</td>
<td>0</td>
<td>Level 4 - Severe/Significant Damage</td>
<td>Level 4 - Poor</td>
<td>Condition/Location</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>None</td>
<td>0</td>
<td>Level 1 - No Damage</td>
<td>Level 1 - Excellent</td>
<td>Condition</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
SDFA 20 - Esplanade Dr

Catch Basin CB-O14-329

View of inlet

View inside inlet pipe

View inside inlet pipe

View inside inlet pipe

View inside inlet pipe

View inside inlet pipe
SDFA 20 - Esplanade Dr

Catch Basin CB-O14-330

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

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>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>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</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>
### Storm Drainage Condition Assessment

**City of Oxnard**

**SDFA 20 - Esplanade Dr**

**Catch Basin CB-O14-330**

<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></td>
<td></td>
<td></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**

- **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:**

**Weather:** Dry

**General Information**

<table>
<thead>
<tr>
<th>Latitude: 34.230341</th>
<th>Susceptible to burial/overgrowth: No</th>
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<tbody>
<tr>
<td>Longitude: -119.175053</td>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%): 30</td>
</tr>
<tr>
<td>Access: Good</td>
<td>Type of sediment/debris: Vegetation/Trash</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.): 72</td>
<td>VANDA Condition Rating: Level 1 - No Damage</td>
</tr>
<tr>
<td>Width (in.): 36</td>
<td>Prioritization Rating: Level 3 - Fair</td>
</tr>
<tr>
<td>Material: Concrete</td>
<td>Prioritization Rationale: Sediment/Location</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.): 4.6</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%): 0</td>
<td>Devices: None</td>
</tr>
</tbody>
</table>

**Notes**

**Pipe Connections**

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

**Photos**
SDFA 20 - Esplanade Dr

*Catch Basin CB-O14-331*

Location view

Catch basin

Sketch

View inside catch basin

View inside catch basin

View inside catch basin
SDFA 20 - Esplanade Dr

Catch Basin CB-O14-331

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe
SDFA 20 - Esplanade Dr

Manhole MH-O14-106

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

General Information

<table>
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<th>Value</th>
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</tr>
<tr>
<td>Longitude</td>
<td>-119.175503</td>
</tr>
<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>Concrete</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.)</td>
<td>5.5</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>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>Yes</td>
</tr>
<tr>
<td>Sediment/debris depth (%)</td>
<td>0</td>
</tr>
<tr>
<td>Type of sediment/debris</td>
<td>None</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

Pipe Connections

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

Photos
SDFA 20 - Esplanade Dr

Manhole MH-O14-106

Location view

View inside manhole

View of outlet

View inside outlet pipe

Sketch

View inside outlet pipe
SDFA 20 - Esplanade Dr

Manhole MH-O14-106

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe

View of inlet

In CMP2

View inside inlet pipe
SDFA 20 - Esplanade Dr

Manhole MH-O14-106

View inside inlet pipe

View inside inlet pipe
SDFA 21 - Pacific Coast Hwy

Area Map

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

Site 21

Source: Esri, DigitalGlobe, GeoEye, Aerogrid, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, ESA, NASA, NPS, NRCAN, GEBCO, Intermap, i-cubed, Map my way, Getmapping, Aerometri, IGN, and the GIS User Community.
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

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>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-N14-301_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:**
- **Weather:** Dry

**General Information**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude:</td>
<td>34.230072</td>
</tr>
<tr>
<td>Longitude:</td>
<td>-119.1784</td>
</tr>
<tr>
<td>Property type:</td>
<td>Public</td>
</tr>
<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>2.5</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
</tr>
<tr>
<td>Devices:</td>
<td>Debris/Trash Rack</td>
</tr>
</tbody>
</table>

**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
- **Devices:** Debris/Trash Rack

**Notes**


**Pipe Connections**

<table>
<thead>
<tr>
<th>Pipe</th>
<th>Dir.</th>
<th>Hdg (in.)</th>
<th>Dia. (in.)</th>
<th>Mat'</th>
<th>Wtr Lvl (ft.)</th>
<th>Rim-inv (ft.)</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-N14-302_CR-N14-801</td>
<td>In</td>
<td>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</td>
<td>Under roadway.</td>
</tr>
<tr>
<td>CR-N14-804_CB-N14-302</td>
<td>Out</td>
<td>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</td>
<td>Under sidewalk.</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude: 34.230384</td>
<td>Susceptible to burial/overgrowth: No</td>
</tr>
<tr>
<td>Longitude: -119.179602</td>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%): 10</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</td>
</tr>
<tr>
<td>Dia./Ht. (in.): 72</td>
<td>VANDA Condition Rating: Level 1 - No Damage</td>
</tr>
<tr>
<td>Width (in.): 36</td>
<td>Prioritization Rating: Level 1 - Excellent</td>
</tr>
<tr>
<td>Material: Concrete</td>
<td>Prioritization Rationale: Condition</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.): 3.75</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%): 0</td>
<td>Devices: None</td>
</tr>
</tbody>
</table>

**Notes**

**Photos**

- Location view
- Catch basin
SDFA 21 - Pacific Coast Hwy

**Catch Basin CB-N14-303**

![Sketch of Catch Basin CB-N14-303]

View inside catch basin

View of outlet

View of inlet
SDFA 21 - Pacific Coast Hwy

Channel JS-N14-505_TS-N14-807

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

General Information

<table>
<thead>
<tr>
<th>Property type:</th>
<th>Public</th>
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<tbody>
<tr>
<td>Access:</td>
<td>Poor</td>
</tr>
<tr>
<td>Traffic:</td>
<td>Heavy</td>
</tr>
<tr>
<td>Ground surface type:</td>
<td>Ashpalt</td>
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<tr>
<td>Dia./Ht. (in.):</td>
<td>Unknown</td>
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<tr>
<td>Width (in.):</td>
<td>Unknown</td>
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<tr>
<td>Material:</td>
<td>Unknown</td>
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<tr>
<td>Grade/rim-invert (ft.):</td>
<td>Unknown</td>
</tr>
<tr>
<td>Water level (%):</td>
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</tr>
<tr>
<td>Devices:</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

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:        | |

Notes

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

Photos
### SDFA 21 - Pacific Coast Hwy

**Culvert CB-N14-300**

<table>
<thead>
<tr>
<th>Evaluation date/time:</th>
<th>9/14/2014 7:51 PM</th>
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</thead>
<tbody>
<tr>
<td>Address/location:</td>
<td>Oxnard Blvd</td>
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<tr>
<td>Map grid reference:</td>
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<tr>
<td>Weather:</td>
<td>Dry</td>
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#### General Information

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<tbody>
<tr>
<td>Longitude:</td>
<td>-119.178979</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>Heavy</td>
</tr>
<tr>
<td>Ground surface type:</td>
<td>Asphalt/Grass/Dirt</td>
</tr>
<tr>
<td>Dia./Ht. (in.):</td>
<td>18</td>
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<tr>
<td>Width (in.):</td>
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<tr>
<td>Material:</td>
<td>CMP</td>
</tr>
<tr>
<td>Grade/rim-invert (ft.):</td>
<td>6</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
</tr>
<tr>
<td>Devices:</td>
<td>Wingwall(s)</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: Vegetation/Trash
- Infiltration in structure: None
- Obstruction/deflection: 0.0
- VANDA Condition Rating: Level 1 - No Damage
- Prioritization Rating: Level 1 - Excellent
- Prioritization Rationale: Condition
- Illegal dumping evidence: No

#### Notes

Inlet at grade. Drains into channel. Loss

#### Photos

- Location view
- View of inlet
SDFA 21 - Pacific Coast Hwy

*Culvert CB-N14-300*

View inside inlet pipe

View inside inlet pipe

View of outlet
SDFA 22 - Vineyard Ave

Area Map

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

Site 22

0 0.075 0.15 0.3 Miles
**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

**General Information**

- Latitude: 34.229236
- Longitude: -119.189107
- Property type: Public
- Access: Good
- Traffic: Heavy
- Ground surface type: Asphalt/Grass/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.</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 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:** 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>34.228925</td>
<td>-119.189343</td>
<td>Public</td>
<td>Good</td>
<td>None</td>
<td>Asphalt/Concrete</td>
<td>160</td>
<td>36</td>
<td>Concrete</td>
<td>3.1</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
- 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>Material</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 E</td>
<td>18H x 30W</td>
<td>CMP</td>
<td>3.1</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>
<td></td>
<td></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

Appendix A - Asset Inventory
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

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Public</th>
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<tbody>
<tr>
<td>Ground surface type</td>
<td>Asphalt</td>
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<tr>
<td>Dia./Ht. (in.)</td>
<td>Unknown</td>
</tr>
<tr>
<td>Width (in.)</td>
<td>Unknown</td>
</tr>
<tr>
<td>Material</td>
<td>Unknown</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>Unknown</td>
</tr>
</tbody>
</table>

### Condition Information and Ratings

<table>
<thead>
<tr>
<th>Susceptible to burial/overgrowth</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susceptible to ponding/flooding</td>
<td>Yes</td>
</tr>
<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>
<td>Unknown</td>
</tr>
<tr>
<td>VANDA Condition Rating</td>
<td>Unknown</td>
</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>No</td>
</tr>
</tbody>
</table>

### 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.): Unknown
Material: Unknown
Grade/rim-invert (ft.): Unknown
Water level (%): 0
Devices: Unknown

Condition Information and Ratings
Susceptible to burial/overgrowth: Unknown
Susceptible to ponding/flooding: Yes
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: 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

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

Appendix A - Asset Inventory

VA Project No.: 14-0195 T01
SDFA 23 - Rose Ave

**Catch Basin CB-Q31-300**

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

### General Information

<p>| | |</p>
<table>
<thead>
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<tbody>
<tr>
<td>Latitude:</td>
<td>34.160378</td>
</tr>
<tr>
<td>Longitude:</td>
<td>-119.159324</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>
</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>4</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

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Susceptible to burial/overgrowth: No</td>
</tr>
<tr>
<td>Susceptible to ponding/flooding: No</td>
</tr>
<tr>
<td>Sediment/debris depth (%): 15</td>
</tr>
<tr>
<td>Type of sediment/debris: Vegetation/Trash</td>
</tr>
<tr>
<td>Infiltration in structure: None</td>
</tr>
<tr>
<td>Obstruction/deflection: 0.0</td>
</tr>
<tr>
<td>VANDA Condition Rating: Level 1 - No Damage</td>
</tr>
<tr>
<td>Prioritization Rating: Level 2 - Good</td>
</tr>
<tr>
<td>Prioritization Rationale: Sediment</td>
</tr>
<tr>
<td>Illegal dumping evidence: 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>CB-Q31-300 JS-Q31-500</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
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: Weather: Dry

General Information

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<th>Parameter</th>
<th>Value</th>
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<td>34.16011</td>
</tr>
<tr>
<td>Longitude</td>
<td>-119.159517</td>
</tr>
<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>24</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>10.5</td>
</tr>
<tr>
<td>Water level (%)</td>
<td>0</td>
</tr>
<tr>
<td>Devices</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>0</td>
</tr>
<tr>
<td>Type of sediment/debris</td>
<td>None</td>
</tr>
<tr>
<td>Infiltration in structure</td>
<td>Stain</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 2 - Good</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>
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<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/Loc.</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/Loc.</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
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

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

Site 24

## SDFA 24 - Statham Blvd

### Culvert HW-P26-801_HW-P26-802

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

<table>
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<tr>
<th>General Information</th>
<th>Condition Information and Ratings</th>
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</thead>
<tbody>
<tr>
<td>Latitude: 34.18028</td>
<td>Susceptible to burial/overgrowth: Yes</td>
</tr>
<tr>
<td>Longitude: -119.165268</td>
<td>Susceptible to ponding/flooding: Yes</td>
</tr>
<tr>
<td>Property type: Public</td>
<td>Sediment/debris depth (%): 100.0</td>
</tr>
<tr>
<td>Access: Good</td>
<td>Type of sediment/debris: Silt/Gravel</td>
</tr>
<tr>
<td>Traffic: Heavy</td>
<td>Infiltration in structure: None</td>
</tr>
<tr>
<td>Ground surface type: Asphalt/Grass/Dirt</td>
<td>Obstruction/deflection: 0.0</td>
</tr>
<tr>
<td>Dia./Ht. (in.): 10</td>
<td>VANDA Condition Rating: Level 2 - Minor Damage</td>
</tr>
<tr>
<td>Width (in.): 16</td>
<td>Prioritization Rating: Level 5 - Immediate Attention</td>
</tr>
<tr>
<td>Material: CMP</td>
<td>Prioritization Rationale: Condition/Location/Sediment</td>
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<tr>
<td>Grade/rim-invert (ft.): 2</td>
<td>Illegal dumping evidence: No</td>
</tr>
<tr>
<td>Water level (%): 0</td>
<td></td>
</tr>
<tr>
<td>Devices: Headwall</td>
<td></td>
</tr>
</tbody>
</table>

### 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

Culvert MH-Q27-103

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

Weather: 

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>Night Site</td>
<td>Asphalt</td>
<td>24</td>
<td></td>
<td>Concrete</td>
<td>6.7</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 |
| 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 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>Sediment/debris depth (%)</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-Q27-103, MH-Q27-105</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>
<td></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>
<td></td>
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</table>
### Storm Drainage Condition Assessment

**City of Oxnard**

#### 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

**Sketch**

- 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 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
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

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

Site 26

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>0.025</th>
<th>0.05</th>
<th>0.1 Miles</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>0</td>
<td>0.025</td>
<td>0.05</td>
<td>0.1 Miles</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Lat.</th>
<th>34.170957</th>
<th>Susceptible to burial/overgrowth:</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long.</td>
<td>-119.151986</td>
<td>Susceptible to ponding/flooding:</td>
<td>No</td>
</tr>
<tr>
<td>Property type:</td>
<td>Public</td>
<td>Sediment/debris depth (%):</td>
<td>10</td>
</tr>
<tr>
<td>Access:</td>
<td>Good</td>
<td>Type of sediment/debris</td>
<td>Vegetation</td>
</tr>
<tr>
<td>Traffic:</td>
<td>None</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>
</tr>
<tr>
<td>Dia./Ht. (in.):</td>
<td>81</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>
<td>5</td>
<td>Illegal dumping evidence:</td>
<td>No</td>
</tr>
<tr>
<td>Water level (%):</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Devices:</td>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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/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>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>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-R28-304_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>
</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>
</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**

| Latitude: | 34.170367 | Susceptible to burial/overgrowth: | No |
| Longitude: | -119.151492 | Susceptible to ponding/flooding: | No |
| 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.): | 108 | VANDA Condition Rating: | Level 1 - No Damage |
| Width (in.): | 36 | Prioritization Rating: | Level 1 - Excellent |
| Material: | Concrete | Prioritization Rationale: | Condition |
| Grade/rim-invert (ft.): | 3.5 | Illegal dumping evidence: | No |
| 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'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>Unknown</td>
<td>Level 2 - Good</td>
<td>Condition</td>
<td></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>Level 3 - Moderate Damage</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc.</td>
<td>Under roadway, Moderate corrosion on invert.</td>
<td></td>
</tr>
</tbody>
</table>

**Photos**
SDFA 26 - Sutter Pl

*Catch Basin CB-R28-306*

![Location view](image)

![Catch basin](image)

![Sketch](image)

![View inside catch basin](image)

![View inside catch basin](image)

![View of outlet](image)
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:  
Weather: Dry

**General Information**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latitude</td>
<td>34.170388</td>
</tr>
<tr>
<td>Longitude</td>
<td>-119.151385</td>
</tr>
<tr>
<td>Property type</td>
<td>Public</td>
</tr>
<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>72</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>2.7</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**

<table>
<thead>
<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>
<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 3 - Moderate Damage</td>
</tr>
<tr>
<td>Prioritization Rating</td>
<td>Level 3 - Fair</td>
</tr>
<tr>
<td>Prioritization Rationale</td>
<td>Condition/Location</td>
</tr>
<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>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>
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</thead>
<tbody>
<tr>
<td>CB-S28-306_CB-R28-306</td>
<td>Out SW 12</td>
<td>CMP</td>
<td>2.7</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>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Photos**
SDFA 26 - Sutter Pl

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

Catch Basin CB-R28-300

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

General Information
Latitude: 34.173789
Longitude: -119.152458
Property type: Public
Access: Good
Traffic: 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_CB-R28-300</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>Unknown</td>
<td>Level 3 - Fair</td>
<td>Condition/Loc ation</td>
<td>Under roadway.</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
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
- **Weather:**

### 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/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_CB-R28-300</td>
<td>Out</td>
<td>N</td>
<td>Unknown</td>
<td>Unknown</td>
<td>2.3</td>
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<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

VA Project No.: 14-0195 TO1

Appendix A - Asset Inventory 334
SDFA 27 - Channel Islands Blvd

*Catch Basin CB-R28-301*

[Location View]

[Sketch]

[Catch Basin]
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: Dry
Weather: Dry

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

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

Notes
Significant buildup of trash and debris.

Pipe Connections

<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-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>
<td>Unknown</td>
<td>Unknown</td>
<td>Level 5 - Immediate Attention</td>
<td>Condition/Sediment</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
Storm Drainage Condition Assessment

City of Oxnard

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: Dry

Weather: Dry

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

Condition Information and Ratings
Susceptible to burial/overgrowth: No
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>Infilt - 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-R28-303_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

*Catch Basin CB-R28-303*

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe
SDFA 27 - Channel Islands Blvd

Channel JS-R28-500_TS-R28-802

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

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

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

Notes

Photos

Location view
View of channel
SDFA 27 - Channel Islands Blvd

Channel JS-R28-500_TS-R28-802

View of channel

View of channel
SDFA 28 - Ventura Rd

Area Map

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

Site 28

Source: ESRI, DigitalGlobe, GeoEye, Earthstar Geographics, USDA, USGS,i-cubed, Getmapping, Aerogrid, IGN, IGP, swisstopo, MapmyIndia

VA Project No.: 14-0195 T01
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:** Dry
- **Weather:** Dry

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

### Condition Information and Ratings
- **Susceptible to burial/overgrowth:** No
- **Susceptible to ponding/flooding:** Yes
- **Sediment/debris depth (%):** 10
- **Type of sediment/debris:** Vegetation/Trash
- **Infiltration in structure:** None
- **Obstruction/deflection:** 0.0
- **VANDA Condition Rating:** Level 1 - No Damage
- **Prioritization Rating:** Level 1 - Excellent
- **Prioritization Rationale:** Condition
- **Illegal dumping evidence:** No
- **Longitude:** -119.194815
- **Latitude:** 34.181246

### 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-L26-302, LS-L26-500</td>
<td>Out</td>
<td>SW</td>
<td>18</td>
<td>PVC</td>
<td>2.1</td>
<td>0</td>
<td>0</td>
<td>None</td>
<td>None</td>
<td>0</td>
<td>N/A</td>
<td>Level 1 - Excellent</td>
<td>Condition</td>
<td>Under roadway.</td>
</tr>
</tbody>
</table>

### Photos
SDFA 28 - Ventura Rd

Catch Basin CB-L26-302

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:** Dry
- **Weather:**

### General Information

<table>
<thead>
<tr>
<th>Latitude</th>
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<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>34.181213</td>
<td>-119.194858</td>
<td>Public</td>
<td>Good</td>
<td>Light</td>
<td>Asphalt/Concrete</td>
<td>96</td>
<td>36</td>
<td>Concrete</td>
<td>2.1</td>
<td>0</td>
<td>None</td>
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</table>

### 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
- **Longitude:** -119.194858
- **Latitude:** 34.181213
- **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/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 inside catch basin
- View of pipe
SDFA 28 - Ventura Rd

Catch Basin CB-L26-306

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

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

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

Notes

Pipe Connections

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

### General Information

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<td>Longitude</td>
<td>-119.194772</td>
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<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>Light</td>
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<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>2.5</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 (%): 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>
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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-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: Dry
Weather: Dry

Notes

Pipe Connections

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

Photos
SDFA 28 - Ventura Rd

*Catch Basin CB-L26-310*

![Location view](image1)

![Catch basin](image2)

![Sketch](image3)

![View inside catch basin](image4)

![View inside catch basin](image5)

![View inside catch basin](image6)
SDFA 28 - Ventura Rd

Catch Basin CB-L26-310

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe

View inside outlet pipe
SDFA 28 - Ventura Rd

Flood Zone FL 28

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

General Information
Latitude: 34.181374
Longitude: -119.194901
Property type: Public
Access: Good
Traffic: Light
Ground surface type: Asphalt
Dia./Ht. (in.): N/A
Width (in.): 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
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

Site 29

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

View of outfall

View of pipe surface

Perforations

Location view

View downstream
SDFA 29 - Kiddie Beach

*Outfall MH-H31-100_MIS-H31-800*

- **Perforations**
- **View inside outfall**
- **Sketch**
- **Catch basins**