

Small Scale Stormwater Demonstration Projects (S3DP)  
Maintenance Inspection Checklist

<b>Project Site: Collinwood Art District Azure Green Parking Lot</b>	
<b>Address: 15602 Waterloo, 44110</b>	
<b>Inspector's Name:</b> Christopher Hartman, CPESC, CPSWQ, CESSWI	<b>Date and Time:</b> 6/19/18, 10:44am
<b>Overall Notes:</b>  1. Minor cracking of the porous concrete was observed, which should be monitored. 2. Applicant should conduct some minor weeding of all the areas of the practice. 3. Recommend adding mulch to the bioretention cell.	

<b>BIORETENTION (Select yes or no to the following maintenance questions)</b>	
Is there debris present? <b>No</b>	Debris notes:  <b>Monitor minor cracking in porous concrete.</b>
Is there a layer of sediment? <b>No</b>	Sediment notes:  <b>N/A</b>
Do the inlets provide stable conveyance into facility? <b>Yes</b>	Inlet notes:  <b>Sheet flow enters cell beyond porous concrete.</b>
Presence of invasive species/weeds? <b>No</b>	Invasive notes:  <b>N/A</b>
Dead vegetation/exposed soil? <b>Yes</b>	Soil notes:  <b>Need to add mulch in biocell.</b>
Evidence of clogging? <b>No</b>	Clogging notes:  <b>N/A</b>
Evidence of erosion? <b>No</b>	Erosion notes:  <b>N/A</b>

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<b>BIORETENTION (Select yes or no to the following maintenance questions)</b>	
Evidence of standing water? <b>No</b>	Standing water notes: <b>N/A</b>
Filter media too low? <b>No</b>	Filter media low notes: <b>N/A</b>
Evidence of blockage in or around outlet? <b>No</b>	Blockage notes <b>N/A</b>
Replant? <b>No</b>	Replant notes: <b>N/A</b>
Complaints from local residents? <b>No</b>	Complaints notes: <b>N/A</b>

<b>Permeable Pavement (Select yes or no to the following maintenance questions)</b>	
Is there sediment or debris present? <b>No</b>	Debris notes: <b>N/A</b>
Does the contributing area need maintenance or stabilization? <b>No</b>	Contributing notes: <b>N/A</b>
Standing Water is visible on the surface after a rain event? <b>No</b>	Standing water visible notes: <b>N/A</b>
Standing water present on the surface? <b>No</b>	Standing water notes: <b>N/A</b>

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Pavement has deteriorated, cracked, settled, or raveled? <b>Yes</b>	Permeable pavement cracked notes:  <b>One crack in western area.</b>
Vegetation is growing in the joints? <b>Yes</b>	Vegetation notes:  <b>One small area on western section.</b>
Gravel is insufficient in the joints of the practice? <b>No</b>	Gravel notes:  <b>N/A</b>

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**PHOTO(S) INFORMATION**



**Explanation: Minor cracking observed within the porous concrete.**

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<b>Name: Collinwood Art District Northeast Shores Headquarters Green Parking Lot</b>	
<b>Address: 317 East 156<sup>th</sup> Street, Cleveland, OH 44110</b>	
<b>Inspector's Name:</b> Christopher Hartman, CPESC, CPSWQ, CESSWI	<b>Date and Time:</b> 06/15/2018 2:50 PM
<b>Overall Notes:</b>  1. The PVC pipe under the walking path (just downslope of the downspout) is clogged and the debris needs to be removed so runoff may flow properly through the entire bioretention cell.	

BIORETENTION (Select yes or no to the following maintenance questions)	
Is there debris present? <b>Yes</b>	Debris notes:  <b>Debris has accumulated in the PVC pipe.</b>
Is there a layer of sediment? <b>No</b>	Sediment notes:  <b>N/A</b>
Do the inlets provide stable conveyance into facility? <b>Yes</b>	Inlet notes:  <b>N/A</b>
Presence of invasive species/weeds? <b>No</b>	Invasive notes:  <b>N/A</b>
Dead vegetation/exposed soil? <b>No</b>	Soil notes:  <b>N/A</b>
Evidence of clogging? <b>Yes</b>	Clogging notes:  <b>Pvc pipe conveying runoff from downspout inlet is clogged.</b>

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Evidence of erosion? <b>Yes</b>	Erosion notes: <b>N/A</b>
Evidence of standing water? <b>No</b>	Standing water notes: <b>N/A</b>
Filter media too low? <b>No</b>	Filter media low notes: <b>N/A</b>
Evidence of blockage in or around outlet? <b>No</b>	Blockage notes: <b>N/A</b>
Replant? <b>No</b>	Replant notes: <b>Is there any planting in the plan at all?</b>
Complaints from local residents? <b>No</b>	Complaints notes: <b>N/A</b>

<b>Permeable Pavement (Select yes or no to the following maintenance questions)</b>	
Is there sediment or debris present?	Debris notes: <b>N/A</b>
Does the contributing area need maintenance or stabilization?	Contributing notes: <b>N/A</b>

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Standing Water is visible on the surface after a rain event?	Standing water visible notes: <b>N/A</b>
Standing water present on the surface?	Standing water notes: <b>N/A</b>
Pavement has deteriorated, cracked, settled, or raveled?	Permeable pavement cracked notes: <b>N/A</b>
Vegetation is growing in the joints?	Vegetation notes: <b>N/A</b>
Gravel is insufficient in the joints of the practice?	Gravel notes: <b>N/A</b>

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**PHOTO(S) INFORMATION**



**Explanation: This pipe will need to be cleaned out in order to convey stormwater correctly.**



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<b>Program Site Name: Key Bank</b>	
<b>Address: 15619 Waterloo Rd, 44110</b>	
<b>Inspector's Name:</b> Christopher Hartman, CPESC, CPSWQ, CESSWI	<b>Date and Time:</b> 06/15/2018 2:21 PM
<b>Overall Notes:</b> <ol style="list-style-type: none"> <li>1. Runoff was observed entering the storm drain inlet nearest the entrance of the property, thereby bypassing the bioretention cell.</li> <li>2. Minor amount trash debris in practice near the entrance of the location. Applicant needs to remove.</li> <li>3. Applicant needs to place solid lids on the parking lot inlets, per the original approved plan.</li> <li>4. Applicant needs to remove the matting that is clogging the practice.</li> <li>5. At the rear cell, rocks need to be formed in a concave manner to ensure water flow no longer causes soil erosion.</li> </ol>	

<b>BIORETENTION (Select yes or no to the following maintenance questions)</b>	
Is there debris present? <b>Yes</b>	Debris notes: <b>Applicant needs to have solid lids on the parking lot inlets, per the original plan.</b>
Is there a layer of sediment? <b>No</b>	Sediment notes: <b>N/A</b>
Do the inlets provide stable conveyance into facility? <b>No</b>	Inlet notes: <b>N/A</b>
Presence of invasive species/weeds? <b>No</b>	Invasive notes: <b>N/A</b>
Dead vegetation/exposed soil? <b>No</b>	Soil notes: <b>N/A</b>
Evidence of clogging? <b>No</b>	Clogging notes: <b>N/A</b>

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Evidence of erosion? <b>No</b>	Erosion notes: <b>N/A</b>
Evidence of standing water? <b>No</b>	Standing water notes: <b>N/A</b>
Filter media too low? <b>No</b>	Filter media low notes: <b>N/A</b>
Evidence of blockage in or around outlet? <b>No</b>	Blockage notes: <b>N/A</b>
Replant?	Replant notes: <b>Plants have been planted.</b>
Complaints from local residents? <b>No</b>	Complaints notes: <b>N/A</b>

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**Explanation:** Low flow rock channels need to be formed in a concave manner. The applicant will also need to remove debris from the practice that is at the entrance of the property. Ensure runoff is not first entering parking lot drain (just off right-hand photo) prior to entering the cell (i.e., add solid lid, re-grade as necessary, etc.).



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**Explanation:** During the inspection we noticed the matting that has been placed down has been compromised. Ensure it will not impact the function of the practice.