

4.3 OUTFALL REPAIR SUMMARY REPORTS

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="1"/>	<input type="text" value="Important"/>	
Total Score	<input type="text" value="4"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

Assessment Comments

Erosion behind wingwalls and under spillway. Cracked wingwall (left) Unable to get close enough to inspect.

Description of Repair Approach

N/A

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GIS Outfall / Photo ID #	F-004	
Inspection Date / By	12/5/2012	SPM
GPS Longitude	-76.98617	
GPS Latitude	38.95179	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Erosion under headwall and downstream.

Description of Repair Approach

Stream Restoration

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OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

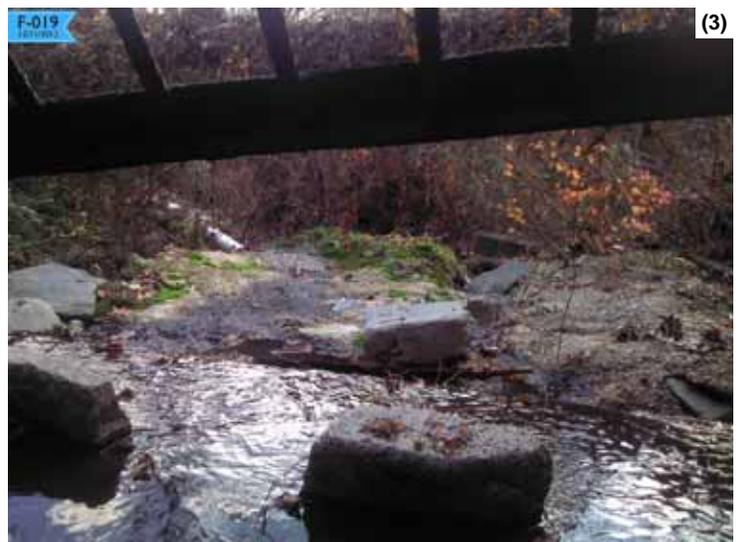
Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

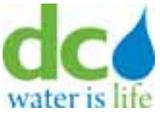
Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-019	
Inspection Date / By	12/11/2012	SPM
GPS Longitude	-77.07978	
GPS Latitude	38.94124	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Spillway cracked and with some erosion underneath.

Description of Repair Approach

N/A

NOTES



GIS Outfall / Photo ID #	F-026	
Inspection Date / By	12/12/2012	SPM
GPS Longitude	-77.09145	
GPS Latitude	38.93231	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? <input checked="" type="checkbox"/> YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="7"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

Assessment Comments

Concrete spillway, headwall, several pipe segments have fallen into the stream. Severe upstream channel erosion appears to be the cause of the problem.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-034	
Inspection Date / By	12/11/2012	SPM
GPS Longitude	-77.07950	
GPS Latitude	38.93730	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="0"/>	<input type="text" value="Stable"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="0"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="2"/>	<input type="text" value="Critical"/>	
Total Score	<input type="text" value="5"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

Assessment Comments

Description of Repair Approach

Point Repair

NOTES



GIS Outfall / Photo ID #	F-042	
Inspection Date / By	12/13/2012	SPM
GPS Longitude	-77.09773	
GPS Latitude	38.91372	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="0"/>	<input type="text" value="Stable"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="0"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="2"/>	<input type="text" value="Critical"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Water trickles out underneath outfall at low flow rates due to partial clogging of outfall and open joint in pipe. May want to investigate for soil voids under roadway.

Description of Repair Approach

Point Repair

NOTES



GIS Outfall / Photo ID #	F-052	
Inspection Date / By	12/13/2012	SPM
GPS Longitude	-77.09155	
GPS Latitude	38.90828	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

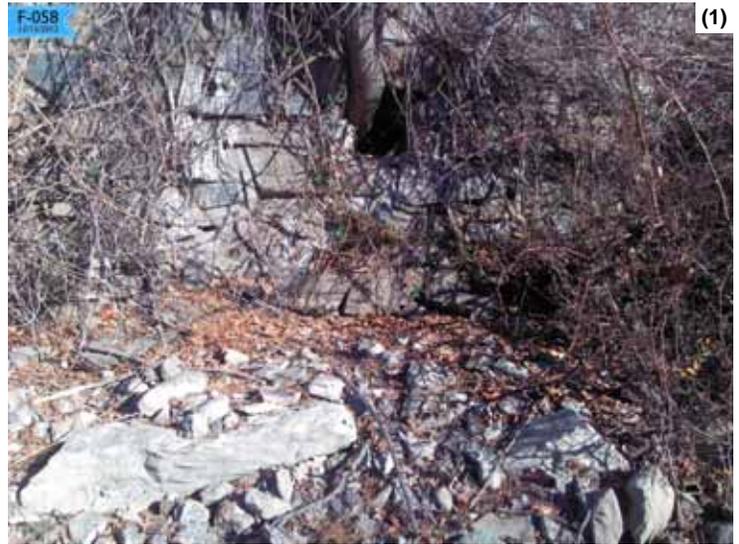
Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="0"/>	<input type="text" value="Stable"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="0"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="2"/>	<input type="text" value="Critical"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Broken pipe.

Description of Repair Approach

Point Repair

NOTES



GIS Outfall / Photo ID #	F-058	
Inspection Date / By	12/13/2012	SPM
GPS Longitude	-77.08878	
GPS Latitude	38.90721	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Section of pipe and headwall collapsed into creek.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-079	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.04221	
GPS Latitude	38.98449	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="1"/>	<input type="text" value="Important"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

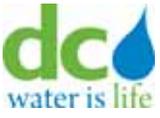
Assessment Comments

Erosion around spillway. Need additional photos of surrounding area to define extent of repair.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-080	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.04218	
GPS Latitude	38.98552	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



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CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="1"/>	<input type="text" value="Important"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Asphalt millings have been dumped to fill gully between MH and outfall. Erosion downstream of outfall.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-081	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.05224	
GPS Latitude	38.98155	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Upstream stream erosion contributing to outfall failure.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-087	
Inspection Date / By	12/5/2012	SPM
GPS Longitude	-77.05250	
GPS Latitude	38.97639	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

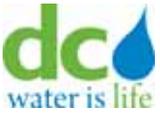
Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-088	
Inspection Date / By	12/5/2012	SPM
GPS Longitude	-77.05271	
GPS Latitude	38.97658	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool Severe Erosion

Stream Bank / Pool (x2)

Structure Very Poor

Criticality Important

Repairs Recommended?
YES

Total Score Total = Stream Bank / Pool x2 + Structure + Criticality

Assessment Comments

Outfall structure collapsed in stream; continuing severe erosion. Storm manhole in bank is close to being eroded out. Erosion encroaching road.

Description of Repair Approach

Stream Restoration

NOTES

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="7"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Outfall structure is OK, stream erosion is not due to this outfall.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-097	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.04446	
GPS Latitude	38.99045	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="7"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Stream has relocated and cut off the meander. Outfall pipe is broken and separated at new stream meander location. Original outfall structure is now abandoned and remains in the old stream channel.

Description of Repair Approach

Stream Restoration

NOTES

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="0"/>	<input type="text" value="Stable"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="0"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="2"/>	<input type="text" value="Critical"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

This inspection is for the smaller of the two pipes. DDOT is in process of repairing this outfall between road and outfall due to collapse of the adjacent roadway culvert.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-102	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.04236	
GPS Latitude	38.98631	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

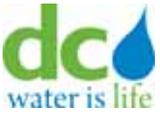
Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="9"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-105	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.04127	
GPS Latitude	38.98824	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

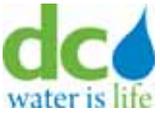
Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

Stream Restoration

NOTES



DISTRICT DEPARTMENT OF THE ENVIRONMENT / DC WATER
MS4 PROGRAM

OUTFALL SUMMARY REPORT

GIS Outfall / Photo ID #	F-106	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.04041	
GPS Latitude	38.98894	

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

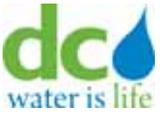
Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

Assessment Comments

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-107	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.03975	
GPS Latitude	38.98945	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="1"/>	<input type="text" value="Important"/>	
Total Score	<input type="text" value="9"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

The pipe on the right is the outfall. Outfall spillway has collapsed in places and is undermined. Severe erosion to the right of outfall.

Description of Repair Approach

Stream Restoration

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

Assessment Comments

Stream widening has caused headwall to collapse. Remaining protruding pipe likely to fail in the future.

Description of Repair Approach

Stream Restoration

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

Assessment Comments

Minor erosion under spillway; broken pipe and security gate.

Description of Repair Approach

Point Repair

NOTES



GIS Outfall / Photo ID #	F-117	
Inspection Date / By	12/6/2012	SPM
GPS Longitude	-77.06413	
GPS Latitude	38.94754	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="7"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Sever erosion at plunge pool and downstream channel. Stream color is a cloudy blue. Investigate further for an illicit discharge?

Description of Repair Approach

Stream Restoration

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

Point Repair

NOTES



GIS Outfall / Photo ID #	F-129	
Inspection Date / By	12/6/2012	SPM
GPS Longitude	-77.05827	
GPS Latitude	38.96291	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="1"/>	<input type="text" value="Important"/>	
Total Score	<input type="text" value="7"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Erosion beneath outfall has created an approx. 7 ft drop.

Description of Repair Approach

Potential RSC

NOTES



DISTRICT DEPARTMENT OF THE ENVIRONMENT / DC WATER
MS4 PROGRAM

OUTFALL SUMMARY REPORT

GIS Outfall / Photo ID #	F-140	
Inspection Date / By	12/6/2012	SPM
GPS Longitude	-77.05596	
GPS Latitude	38.94636	

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

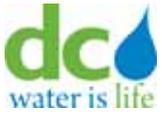
Assessment Comments

The other smaller outfall in picture belongs to NPS. Active erosion downstream of plunge pool and footbridge.

Description of Repair Approach

Potential RSC

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="0"/>	<input type="text" value="Stable"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="0"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="2"/>	<input type="text" value="Critical"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

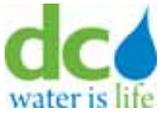
Assessment Comments

DDOT has anaboned this roadway and it has no traffic on it.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-170a	
Inspection Date / By	12/7/2012	SPM
GPS Longitude	0.00000	
GPS Latitude	0.00000	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

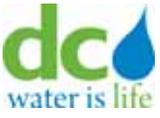
Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? <input checked="" type="button" value="YES"/>
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

Point Repair

NOTES



DISTRICT DEPARTMENT OF THE ENVIRONMENT / DC WATER
MS4 PROGRAM

OUTFALL SUMMARY REPORT

GIS Outfall / Photo ID #	F-209	
Inspection Date / By	12/10/2012	SPM
GPS Longitude	-77.05712	
GPS Latitude	38.91852	

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="1"/>	<input type="text" value="Important"/>	
Total Score	<input type="text" value="7"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Current outfall discharges on top of large SS pipe. Multiple sections of storm pipe have separated and fallen into stream channel. Fix this one to protect SS asset

Description of Repair Approach

Point Repair

NOTES

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Minor erosion beneath spillway. Severe upstream/downstream erosion.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-269	
Inspection Date / By	1/11/2013	SPM
GPS Longitude	-76.97635	
GPS Latitude	38.84262	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? <input checked="" type="checkbox"/> YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Separated pipe joints. Severe upstream/downstream erosion.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-276	
Inspection Date / By	1/11/2013	SPM
GPS Longitude	-76.97876	
GPS Latitude	38.84230	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



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CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Erosion under spillway and down to main stream.

Description of Repair Approach

Stream Restoration

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	Active Erosion	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	Moderate	
Criticality	<input type="text" value="0"/>	Normal	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Erosion under spillway and wingwall and down to main stream. Looks like creek channel elevation used to be ~2 feet higher.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-278	
Inspection Date / By	1/11/2013	SPM
GPS Longitude	-76.98387	
GPS Latitude	38.84063	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

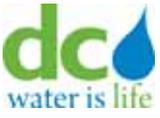
Assessment Comments

Appears to be a broken abandoned SS in the creek.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-278a	
Inspection Date / By	1/11/2013	SPM
GPS Longitude	0.00000	
GPS Latitude	0.00000	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="0"/>	<input type="text" value="Stable"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="0"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="1"/>	<input type="text" value="Important"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Significant erosion and undercutting behind wall has led to failure of storm manhole.

Description of Repair Approach

Stream Restoration

NOTES

OUTFALL SUMMARY REPORT





OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool

Stream Bank / Pool (x2)

Structure

Criticality

Repairs Recommended?
YES

Total Score Total = Stream Bank / Pool x2 + Structure + Criticality

Assessment Comments

Description of Repair Approach

Stream Restoration

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

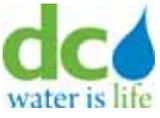
Assessment Comments

Contributing to downstream channel erosion and widening. Consider stream restoration project.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-353	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.03678	
GPS Latitude	38.99129	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool

Stream Bank / Pool (x2)

Structure

Criticality

Repairs Recommended?
YES

Total Score Total = Stream Bank / Pool x2 + Structure + Criticality

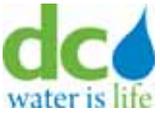
Assessment Comments

Headcut likely to continue upstream to FES pipe end.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-405	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.97725	
GPS Latitude	38.85433	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="9"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Major erosion has created a ravine that has collapsed pipe structure.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-410	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.97469	
GPS Latitude	38.85896	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-412	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.96812	
GPS Latitude	38.86694	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="7"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Discharge smells of chlorine (like a swimming pool). Erosion has undercut spillway and cut a ravine downstream. Discharge energy dissipation weir at pipe end inside structure.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-467	
Inspection Date / By	1/11/2013	SPM
GPS Longitude	-76.93940	
GPS Latitude	38.87488	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="8"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Headwall partially collapsed. Pipe behind head wall is broken and collapsed. Severe upstream/downstream erosion.

Description of Repair Approach

Point Repair

NOTES



GIS Outfall / Photo ID #	F-470	
Inspection Date / By	1/11/2013	SPM
GPS Longitude	-76.94448	
GPS Latitude	38.88497	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="8"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Headwall has collapsed. 2 ft drop at outfall. Severe upstream/downstream erosion.

Description of Repair Approach

Point Repair

NOTES



GIS Outfall / Photo ID #	F-471	
Inspection Date / By	1/11/2013	SPM
GPS Longitude	-76.94459	
GPS Latitude	38.88513	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



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CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

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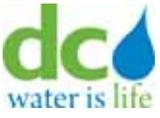
Assessment Comments

Downstream erosion continuing.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-474	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.95490	
GPS Latitude	38.86660	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="9"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Pipe has been undermined and collapsed into ravine.

Description of Repair Approach

Potential RSC

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

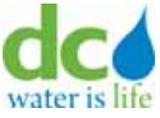
Assessment Comments

Pipe/head wall looks like it has sunk into stream channel over time. Upstream erosion.

Description of Repair Approach

N/A

NOTES



DISTRICT DEPARTMENT OF THE ENVIRONMENT / DC WATER
MS4 PROGRAM

OUTFALL SUMMARY REPORT

GIS Outfall / Photo ID #	F-476	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.95645	
GPS Latitude	38.86706	

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

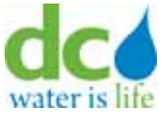
Assessment Comments

Severe erosion at kneewall and plunge pool.

Description of Repair Approach

Stream Restoration

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="9"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

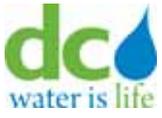
Assessment Comments

Severe erosion downstream: 5 ft and then 6 ft drop after outfall. Pipes collapsed into stream. Stream channel has eroded is approximately 12 ft since outfall was installed.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-483	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.96025	
GPS Latitude	38.86597	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



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CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="8"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Severe erosion upstream, under outfall outlet structure and downstream gully erosion.

Description of Repair Approach

Potential RSC

NOTES

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Is this an inlet or an outfall? Additional field trip needed?

Description of Repair Approach

Potential RSC

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Severe erosion upstream, under pipe and downstream. Broken off headwall may be located under logs/brush pile.

Description of Repair Approach

Potential RSC

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



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CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="2"/>	<input type="text" value="Critical"/>	
Total Score	<input type="text" value="11"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Broken pipe and end structure. Severely eroded gully; depth approx 10-15 feet. Erosive sandy soils. Park Drive regenerative stormwater conveyance project is already in progress.

Description of Repair Approach

Potential RSC

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="9"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Outfall has caused a erosion of a ravine downstream. Outfall structure has collapsed and been undermined. Water now flows from pipe behind headwall.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-492	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.96516	
GPS Latitude	38.86588	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



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CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? <input checked="" type="button" value="YES"/>
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="8"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

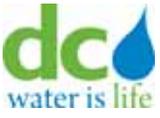
Assessment Comments

Collapsed headwall and pipe have fallen into creek.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-493	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.96036	
GPS Latitude	38.86645	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Severe downstream erosion.

Description of Repair Approach

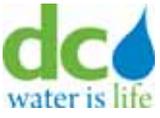
Potential RSC

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DISTRICT DEPARTMENT OF THE ENVIRONMENT / DC WATER
MS4 PROGRAM

OUTFALL SUMMARY REPORT

GIS Outfall / Photo ID #	F-636	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.95815	
GPS Latitude	38.86652	

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

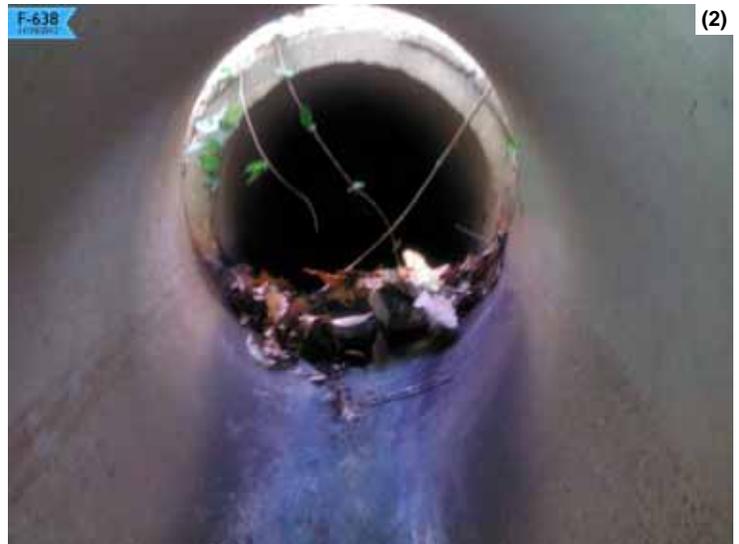
Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	Active Erosion	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="3"/>	Very Poor	
Criticality	<input type="text" value="0"/>	Normal	
Total Score	<input type="text" value="7"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Collapsed outfall with pipe separation at first joint. Note recent sanitary sewer point repair behind headwall. Evidence of downstream erosion but somewhat stable now.

Description of Repair Approach

Stream Restoration

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

There is a steep slope coming off Texas Ave. Pipe joint separation. Embankment above outfall and plunge pool are eroded.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-639	
Inspection Date / By	11/10/2012	SPM
GPS Longitude	-76.95250	
GPS Latitude	38.87252	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

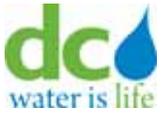
Assessment Comments

Photos are ribboned as F-562 but named F-652.

Description of Repair Approach

Point Repair

NOTES



GIS Outfall / Photo ID #	F-652	
Inspection Date / By	1/14/2013	SPM
GPS Longitude	-76.96944	
GPS Latitude	38.90378	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Collapsed wing wall. Unable to get close enough to inspect. Some downstream erosion.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-659	
Inspection Date / By	12/6/2012	SPM
GPS Longitude	-77.05316	
GPS Latitude	38.97027	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

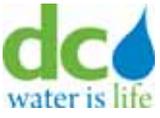
Assessment Comments

Downstream erosion.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-678	
Inspection Date / By	1/14/2013	SPM
GPS Longitude	-76.93726	
GPS Latitude	38.90950	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

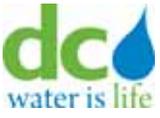
Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-690	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.03938	
GPS Latitude	38.98960	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Need additional photos to determine limits of repair.

Description of Repair Approach

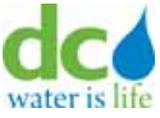
Point Repair

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GIS Outfall / Photo ID #	F-698	
Inspection Date / By	12/12/2012	SPM
GPS Longitude	-77.09391	
GPS Latitude	38.92749	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Erosion above headwall and stream bank erosion downstream.

Description of Repair Approach

Potential RSC

NOTES



OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="2"/>	<input type="text" value="Critical"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

N/A

NOTES



GIS Outfall / Photo ID #	F-711	
Inspection Date / By	12/12/2012	SPM
GPS Longitude	-77.11135	
GPS Latitude	38.92915	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



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CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="2"/>	<input type="text" value="Critical"/>	
Total Score	<input type="text" value="5"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

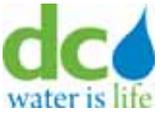
Assessment Comments

minor rill erosion

Description of Repair Approach

N/A

NOTES



GIS Outfall / Photo ID #	F-721	
Inspection Date / By	12/13/2012	SPM
GPS Longitude	-77.07781	
GPS Latitude	38.90583	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? <input checked="" type="checkbox"/> YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

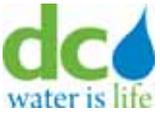
Assessment Comments

Pipe is eroding a channel downstream and depositing lots of garbage in the woods. Bottom is rusted out of CMP.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-744	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.95476	
GPS Latitude	38.86564	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Erosion under spillway and downstream. Pipe broken at first joint and separated from structure.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-749	
Inspection Date / By	12/12/2012	SPM
GPS Longitude	-77.09080	
GPS Latitude	38.92624	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

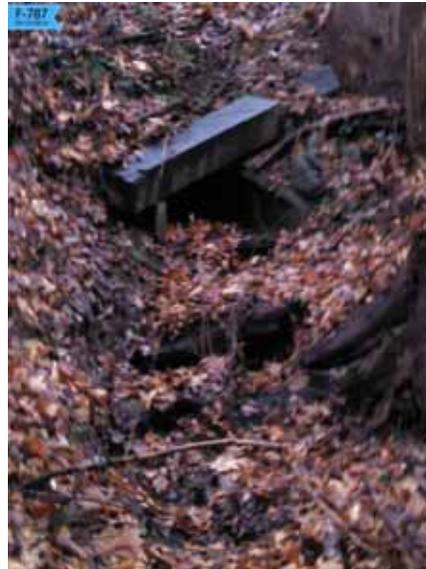
Access From

Land Use

PHOTOS



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CONDITION / CRITICALITY ASSESSMENT

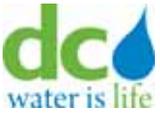
Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? NO
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

Assessment Comments

Description of Repair Approach

NOTES

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GIS Outfall / Photo ID #	F-787	
Inspection Date / By	1/15/2013	SPM
GPS Longitude	-77.03900	
GPS Latitude	38.95984	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Erosion around pipe has caused large ravine. Total depth of ravine is approx 10 ft

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-793	
Inspection Date / By	12/14/2012	SPM
GPS Longitude	-76.95570	
GPS Latitude	38.91631	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

Assessment Comments

Erosion has undermined pipe to the point of collapsing two sections.

Description of Repair Approach

Stream Restoration

NOTES

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GIS Outfall / Photo ID #	F-794	
Inspection Date / By	12/14/2012	SPM
GPS Longitude	-76.96189	
GPS Latitude	38.91656	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Structure interior concrete walls are deteriorated. Headwall is broken and near collapse.

Description of Repair Approach

Point Repair

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GIS Outfall / Photo ID #	F-797	
Inspection Date / By	1/11/2013	SPM
GPS Longitude	-76.96839	
GPS Latitude	38.89153	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



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CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

Assessment Comments

Bottom of pipe is deteriorated. Severe downstream erosion.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-798	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.95345	
GPS Latitude	38.86619	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="3"/>	<input type="text" value="Very Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="9"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Ravine erosion 5ft drop at outfall. Severe erosion caused a large ravine downstream. Pipe is clogged. Pipe joints are open and misaligned.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-849	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.96035	
GPS Latitude	38.86654	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Minor erosion under splash pad and around wingwalls. Severe downstream erosion; channel appears vertically stable now.

Description of Repair Approach

Stream Restoration

NOTES



GIS Outfall / Photo ID #	F-853	
Inspection Date / By	12/11/2012	SPM
GPS Longitude	-77.07920	
GPS Latitude	38.94027	

OUTFALL SUMMARY REPORT



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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

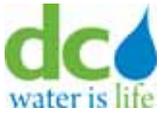
Assessment Comments

Downstream erosion.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-855	
Inspection Date / By	12/12/2012	SPM
GPS Longitude	-77.08680	
GPS Latitude	38.92243	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Located on Maryland side. Outfall structure has collapsed in stream.

Description of Repair Approach

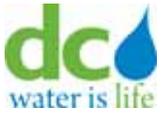
Stream Restoration

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GIS Outfall / Photo ID #	F-865	
Inspection Date / By	12/3/2012	SPM
GPS Longitude	-77.04445	
GPS Latitude	38.99328	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

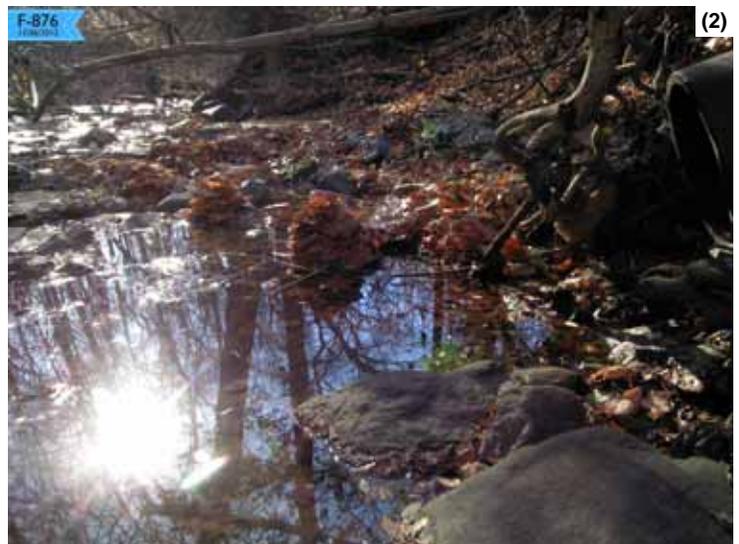
Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="1"/>	<input type="text" value="Some Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="2"/>		
Structure	<input type="text" value="2"/>	<input type="text" value="Poor"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="4"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

Description of Repair Approach

Point Repair

NOTES



DISTRICT DEPARTMENT OF THE ENVIRONMENT / DC WATER
MS4 PROGRAM

OUTFALL SUMMARY REPORT

GIS Outfall / Photo ID #	F-876	
Inspection Date / By	12/6/2012	SPM
GPS Longitude	-77.05142	
GPS Latitude	38.94821	

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool

Stream Bank / Pool (x2)

Structure

Criticality

Repairs Recommended?
NO

Total Score Total = Stream Bank / Pool x2 + Structure + Criticality

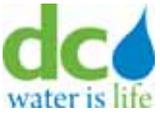
Assessment Comments

Significant erosion formed a ravine down the hillside on other side of erosion control barrier. May want to perform inspection of downstream channel to see if repair is needed.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-930	
Inspection Date / By	1/4/2013	SPM
GPS Longitude	-77.00012	
GPS Latitude	38.84903	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions
 Width feet
 Height feet

Pipe Material

End Structure

Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

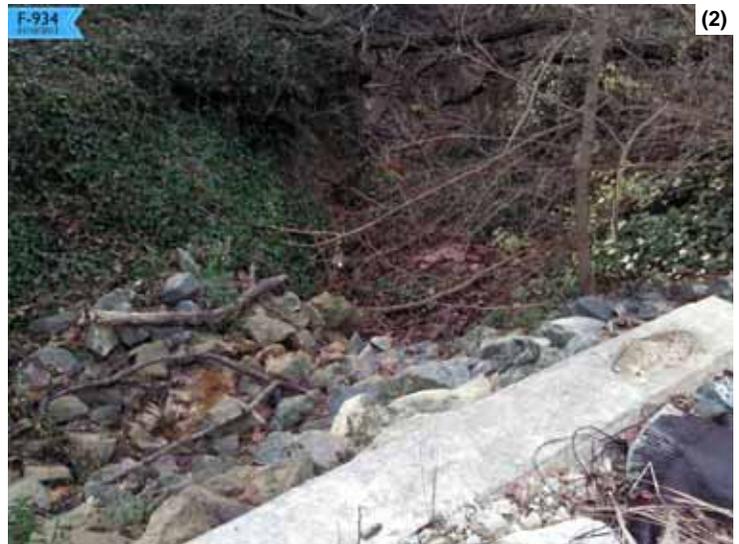
Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="3"/>	<input type="text" value="Severe Erosion"/>	Repairs Recommended? <input checked="" type="checkbox"/> YES
Stream Bank / Pool (x2)	<input type="text" value="6"/>		
Structure	<input type="text" value="0"/>	<input type="text" value="Excellent / Like New"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="6"/>	<i>Total = Stream Bank / Pool x2 + Structure + Criticality</i>	

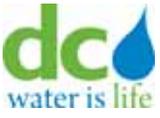
Assessment Comments

Outfall has been repaired in the recent past. Severe erosion remains a problem downstream.

Description of Repair Approach

Potential RSC

NOTES



GIS Outfall / Photo ID #	F-934	
Inspection Date / By	1/10/2013	SPM
GPS Longitude	-76.95454	
GPS Latitude	38.86659	

OUTFALL SUMMARY REPORT

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OUTFALL SUMMARY REPORT

INVENTORY INFORMATION

Status

Pipe Diameter inches

Culvert Dimensions Width feet
 Height feet

Pipe Material

End Structure
Flared End Headwall None

Security Gate

Outfall Bank Location looking DS

Horiz. Dist. to Receiving Stream feet

Vert. Dist. to Receiving Stream feet

Downstream Bank Slope %

Horiz. Distance from Roadway feet

Vert. Distance from Roadway feet

Watershed Name

Receiving Stream Name

Property Type

Facility Name

Access From

Land Use

PHOTOS



CONDITION / CRITICALITY ASSESSMENT

Stream Bank / Pool	<input type="text" value="2"/>	<input type="text" value="Active Erosion"/>	Repairs Recommended? YES
Stream Bank / Pool (x2)	<input type="text" value="4"/>		
Structure	<input type="text" value="1"/>	<input type="text" value="Moderate"/>	
Criticality	<input type="text" value="0"/>	<input type="text" value="Normal"/>	
Total Score	<input type="text" value="5"/>	<small>Total = Stream Bank / Pool x2 + Structure + Criticality</small>	

Assessment Comments

30" deep erosion under outfall headwall. - Notify DDOT of repairs needed?

Description of Repair Approach

Point Repair

NOTES



OUTFALL SUMMARY REPORT



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