SSO SSDP
Project Fact Sheet

SSO Project Number:	S_CC_CC_70158_M_09A_C
Project Name:	Idlewood Inline Storage
Modeled Area:	Cedar Creek
Branch or SSO ID:	70158
Project Type:	Inline Storage
Receiving Stream:	Cedar Creek
Project Description:	This alternative includes in-line storage with 995 LF of (84" to 120") pipe to store wet weather peak flows. Also included are pipe upgrades for 1,747 LF of open cut (8" to 15") sewer to increase hydraulic capacity during wet weather peak flows.
Reason for Overflow:	Hydraulic bottleneck
Design Parameters / Assumptions:	This solution is based on a 1.82 inch cloudburst rain event
Project Constraints:	Homes are ~100' from the SSO locations Depth to rock is ~3'
Estimated Capital Cost (2008 dollars):	$2,317,000
Weighted Benefit/Cost Ratio (Present Worth):	31.36

Overflow Points Addressed:

SSO	SSO Name	Service Area	Overflow Type	Discharge To	Average Overflow / Incident (gallons)
28984	Plumwood #1	Cedar Creek	Manhole	Ground	21,600
28998	Plumwood #2	Cedar Creek	Manhole	Ground	21,600
63094	Plumwood #4	Cedar Creek	Manhole	Stream	50
63095	Plumwood #5	Cedar Creek	Manhole	Stream	13
70158	Plumwood #3	Cedar Creek	Manhole	Ground	378,333

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Cedar Creek Sewershed

Solution ID # S_CC_CC_70158_M_09A_C

Idlewood Inline Storage

Preliminary - For Budget Development Only

Legend

- Documented SSO
- Suspected SSO
- Haul Operation
- Proposed Pump Station Solution
- Pump Station
- WWTP
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Proposed Off-line Storage
- Road
- Streams
- Floodway
- Small WWTP Service Area
- Large WWTP Service Area
- CSO Area
- Metro Parks

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch = 300 feet

Scalable when printed on 11" X 17" paper

Some boundaries are uniquely symbolized within the map.

Map Revision
May 07, 2009

Aerial Date: 2006

N

SSO SSDP
Project Fact Sheet

SSO Project Number:	S_FF_CC_81316_M_03_C_A
Project Name:	Fairmount Rd. PS Improvements
Modeled Area:	Cedar Creek
Branch or SSO ID:	81316
Project Type:	PS Upgrades
Receiving Stream:	Big Run
Project Description:	Install (3) 130 HP, 1750 gpm pumps to increase capacity
Reason for Overflow:	Pump station capacity
Design Parameters / Assumptions:	The Fairmount Rd Pump Station Expansion project will install new pumps, which eliminate overflows up to the 2.60-inch cloudburst storm event. This upgrade is part of the original design to accommodate future development.
Project Constraints:	None
Capital Projects:	E00303 ~ Fairmount Road Pump Station Expansion; E01037 ~ Fairmount Road Pump Station Expansion; E01238 ~ Broad Run Road Interceptor Sanitary - Outside 5 Year Plan; E01240 ~ Billtown Road Interceptor Sanitary - Awaiting Start; E93357 ~ Billtown Rd. Pump Station, Force Main - Outside 5 Year Plan; E94251 ~ Lake of the Woods WWTP Elimination - Outside 5 Year Plan; E94366 ~ Razor Branch Interceptor Sanitary Sewer - Awaiting Start
Estimated Capital Cost (2008 dollars):	$874,000
Weighted Benefit/Cost Ratio (Present Worth):	33.29

Overflow Points Addressed:

SSO	SSO Name	Service Area	Overflow Type	Discharge To	Average Overflow / Incident (gallons)
81316	Fairmount Road #1	Cedar Creek	Manhole	Ground	500
97362	Fairmount Road #2	Cedar Creek	Manhole	Ground	212,100

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Cedar Creek Sewershed

Solution ID # S_FF_CC_81316_M_03_C_A

Fairmount Rd. PS Improvements

Preliminary - For Budget Development Only

Legend

- Documented SSO
- Suspected SSO
- Haul Operation
- Proposed Pump Station Solution
- Pump Station
- WWTP
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Proposed Off-line Storage
- Road
- Streams
- Floodway
- Small WWTP Service Area
- Large WWTP Service Area
- CSO Area
- Metro Parks

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch = 100 feet

Scalable when printed on 11" X 17" paper

Some boundaries are uniquely symbolized within the map.

Map Revision
May 07, 2009

Aerial Date: 2006

N

CMS Inc. SSDP Map Series: Fairmount Rd. PS Inline Storage.mxd

This document was developed in color. Reproduction in black and white may not represent the data as intended.

SSO SSDP
Project Fact Sheet

SSO Project Number:	S_CC_CC_67997_M_01_C
Project Name:	Little Cedar Creek Interceptor Improvements
Modeled Area:	Cedar Creek
Branch or SSO ID:	67997
Project Type:	Pipe Upgrades
Receiving Stream:	Little Cedar Creek
Project Description:	This alternative includes upsizing 3,701 LF of open cut sewer and 215 LF of 21"tunneling interceptor pipe in the area to increase hydraulic capacity during wet weather peak flows.
Reason for Overflow:	System capacity
Design Parameters / Assumptions:	This solution is based on a 1.82 inch cloudburst rain event
Project Constraints:	Project will occur in MSD easements or land
Estimated Capital Cost (2008 dollars):	$1,875,000
Weighted Benefit/Cost Ratio (Present Worth):	23.86

Overflow Points Addressed:

SSO	SSO Name	Service Area	Overflow Type	Discharge To	Average Overflow / Incident (gallons)
67997	7906 Gainsborough Court	Cedar Creek	Manhole	Stream	25
67999	7904 Shaw Court	Cedar Creek	Manhole	Stream	Suspected-no data
86423	8314 Casualwood Way	Cedar Creek	Manhole	Stream	MOP-no data
89195	8104 Kimberly Way	Cedar Creek	Manhole	Stream	MOP-no data
89197	8104 Kimberly Way	Cedar Creek	Manhole	Stream	MOP-no data

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Cedar Creek Sewershed

Solution ID # S_CC_CC_67997_M_01_C

Little Cedar Creek Interceptor Improvements

Preliminary - For Budget Development Only

Legend

- Documented SSO
- Suspected SSO
- Haul Operation
- Proposed Pump Station Solution
- Pump Station
- WWTP
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Proposed Off-line Storage
- Road
- Streams
- Floodway
- Small WWTP Service Area
- Large WWTP Service Area
- CSO Area
- Metro Parks

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch = 300 feet
Scalable when printed on 11" X 17" paper

Some boundaries are uniquely symbolized within the map.

Map Revision
May 07, 2009

Aerial Date: 2006

N

LOJIC

MSD
Metropolitan Sewer District

PROJECT WIN
Wastewater Improvements Now

67999

67997

Upsize 3,701 LF of (12" to 21") interceptor pipe. Additional 215 LF of tunneling under I-265.

265

DELIGHTFUL CT
DELIGHTFUL WAY
ROSEBOWL CT
HAPPINESS WAY
CELESTIAL WAY
CASUALWOOD WAY
MARY SUE DR
ANNALISA DR
RANDOMWOOD CT
ROBIN HILL DR
CARMIL DR
CARMIL CT
BLUE BOY PL
MARKET CART WAY
GAINSBOROUGH DR
SHAW CT
GAINSBOROUGH CT
WATERING PL
SMITH LN
AUTUMNWOOD WAY
BRANCHTREE PL
ZELMA FIELDS AVE
SAGEBRUSH CT
ARDENIA LN
JASMINE LN
LA FON AVE
SILVER BELL AVE
LITTLE CEDAR CREEK

This document was developed in color. Reproduction in black and white may not represent the data as intended.

SSO SSDP
Project Fact Sheet

SSO Project Number:	S_CC_CC_MSD1025_S_03_B
Project Name:	Bardstown Rd. PS Improvements
Modeled Area:	Cedar Creek
Branch or SSO ID:	MSD1025
Project Type:	Pump Station Upgrades
Receiving Stream:	Big Run

Project Description: This alternative includes increasing the capacity of the pump station with an additional 70% of hydraulic capacity to 0.53 MGD so that overflows do not occur upstream.

Reason for Overflow:	Capacity
Design Parameters / Assumptions:	This solution is based on a 2.25 inch cloudburst rain event
Project Constraints:	None at this time.
Estimated Capital Cost (2008 dollars):	$281,000
Weighted Benefit/Cost Ratio (Present Worth):	46.50

Overflow Points Addressed:

SSO	SSO Name	Service Area	Overflow Type	Discharge To	Average Overflow / Incident (gallons)
88545	11101 Cambridge Commons Drive	Cedar Creek	Manhole	Ground	Suspected- no data

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Cedar Creek Sewershed

Solution ID # S_CC_CC_MSD1025_S_03_B

Bardstown Rd. PS Improvements

Preliminary - For Budget Development Only

Legend

- Documented SSO
- Suspected SSO
- Haul Operation
- Proposed Pump Station Solution
- Pump Station
- WWTP
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Proposed Off-line Storage
- Road
- Streams
- Floodway
- Small WWTP Service Area
- Large WWTP Service Area
- CSO Area
- Metro Parks

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

1 inch = 100 feet
Scalable when printed on 11" X 17" paper

Some boundaries are uniquely symbolized within the map.

Map Revision
May 08, 2009

Aerial Date: 2006

N

Upgrade PS to handle peak flows of 0.53 MGD at the Bardstown Road PS.

PS

88545

TWIN CEDARS WAY

CORNELL DR

MOOREHOUSE CT

HARVARD COMMONS CT

CAMBRIDGE COMMONS DR

CAMBRIDGE COMMONS CT

This document was developed in color. Reproduction in black and white may not represent the data as intended.

SSO SSDP
Project Fact Sheet

SSO Project Number:	S_CC_CC_MSD1080_S_01_C
Project Name:	Running Fox PS Elimination
Modeled Area:	Cedar Creek
Branch or SSO ID:	MSD1080
Project Type:	Diversion
Receiving Stream:	Little Cedar Creek
Project Description:	Construct 375 LF of 8" gravity sewer to eliminate Running Fox PS. Existing PS and force main will remain functional, but dormant, to allow for monitoring downstream impacts of the new diversion. If no impacts are noted, station will be eliminated and force main taken out of service. If downstream impacts arise, the PS will be reconfigured to supplement the capacity of the new diversion line.
Reason for Overflow:	Pump Station capacity
Design Parameters / Assumptions:	This solution is based on a 1.82 inch cloudburst rain event
Project Constraints:	None
Estimated Capital Cost (2008 dollars):	$96,000
Weighted Benefit/Cost Ratio (Present Worth):	659.52

Overflow Points Addressed:

SSO	SSO Name	Service Area	Overflow Type	Discharge To	Average Overflow / Incident (gallons)
MSD1080-LS	Running Fox	Cedar Creek	Lift Station	Ditch	37,000

Integrated Overflow Abatement Plan

Vol. 3 - Sanitary Sewer Discharge Plan

Cedar Creek Sewershed

Solution ID # S_CC_CC_MSD1080_S_01_C

Running Fox PS Elimination

Preliminary - For Budget Development Only

Legend

- Documented SSO
- Suspected SSO
- Haul Operation
- Proposed Pump Station Solution
- Pump Station
- WWTP
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Proposed Off-line Storage
- Road
- Streams
- Floodway
- Small WWTP Service Area
- Large WWTP Service Area
- CSO Area
- Metro Parks

General representation of overflow abatement solutions are for preliminary planning purposes. Alignments and locations may be altered during design.

Construct 375 LF of 8" gravity sewer to eliminate Running Fox PS. Existing PS and force main will remain functional, but dormant, to allow for monitoring downstream impacts of the new diversion. If no impacts are noted, station will be eliminated.

RENATE RD

PAUL ALAN WAY

FIELD TRAILS CT

DECOY RD

RUNNING FOX

MSD1080-LS

RUNNING FOX CIR

GAMEKEEPER CT

SILVER FOX RD

1 inch = 100 feet

Scalable when printed on 11" X 17" paper

Some boundaries are uniquely symbolized within the map.

Map Revision
May 07, 2009

Aerial Date: 2006

N

This document was developed in color. Reproduction in black and white may not represent the data as intended.