

SSO SSDP Project Fact Sheet



SSO Project Number: S_HC_HC_MSD1082_S_09A_C

<u>Project Name:</u> Meadow Stream PS Inline Storage

Modeled Area: Hite Creek

Branch or SSO ID: MSD1082

Project Type: Inline Storage

Receiving Stream: Floyds Fork and South Fork Harrods Creek

<u>Project Description:</u> This alternative includes underground in-line storage with the current

influent line to the PS, consisting of two, 120" diameter storage pipes

each 238 LF.

Reason for Overflow: Pump station capacity

<u>Design Parameters / Assumptions:</u> This solution is based on a 1.82 inch cloudburst rain event

<u>Project Constraints:</u> Project will occur in MSD easements or land

Estimated Capital Cost (2008

dollars):

\$974,000

Weighted Benefit/Cost Ratio (Present

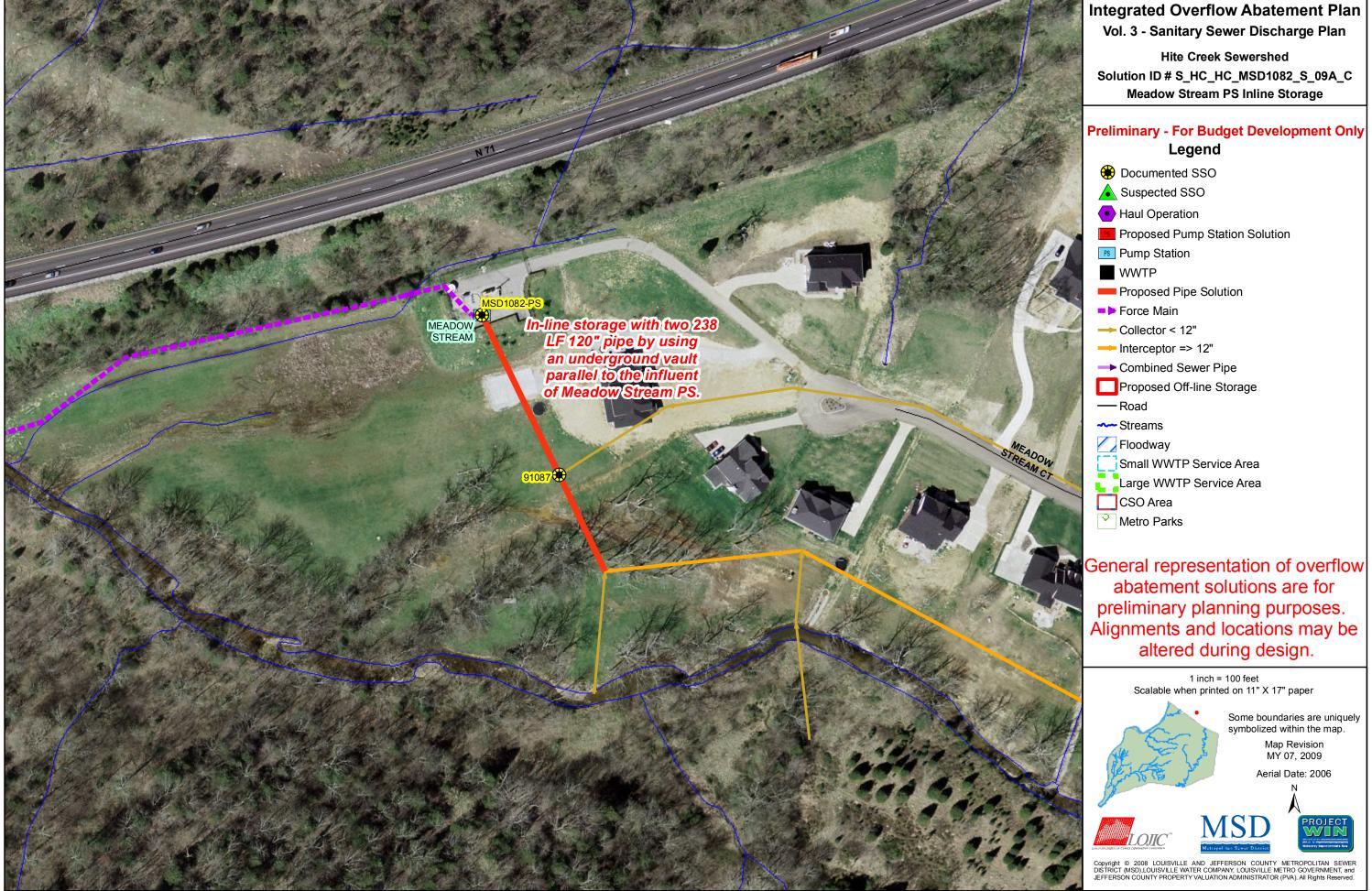
Worth):

13.77

Overflow Points Addressed:

<u>SSO</u>	SSO Name	Service Area	Overflow Type	<u>Discharge To</u>	Average Overflow / Incident (gallons)
91087	Near Meadow Stream PS	Hite Creek	Manhole	Stream	405,001
MSD1082-PS	Meadow Stream	Hite Creek	Lift Station	Ground	51,000

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SSO SSDP Project Fact Sheet



SSO Project Number: S_HC_HC_MSD1086_M_07_C_A

<u>Project Name:</u> Floydsburg Rd. I/I Investigation and Rehabilitation

Modeled Area: Hite Creek

Branch or SSO ID: MSD1086

Project Type: I/I reduction

Receiving Stream: Floyds Fork

<u>Project Description:</u> This location will be targeted for I/I source control (I/I rehab and private

property program). A full SSES will be performed upstream of this PS. If I/I reduction is deemed unsuccessful in eliminating the SSO, the next best alternative will be implemented, which is Pump Station & Force Main

upgrades.

Reason for Overflow: Pump station capacity

<u>Design Parameters / Assumptions:</u>
This solution is based on a 1.82 inch cloudburst rain event

Project Constraints: Project may need to include lateral work on private property

Estimated Capital Cost (2008

dollars):

\$57,000 (Cost is for SSES only; rehabilitation will be performed under Annual I/I Rehab contracts and the private property program)

Weighted Benefit/Cost Ratio

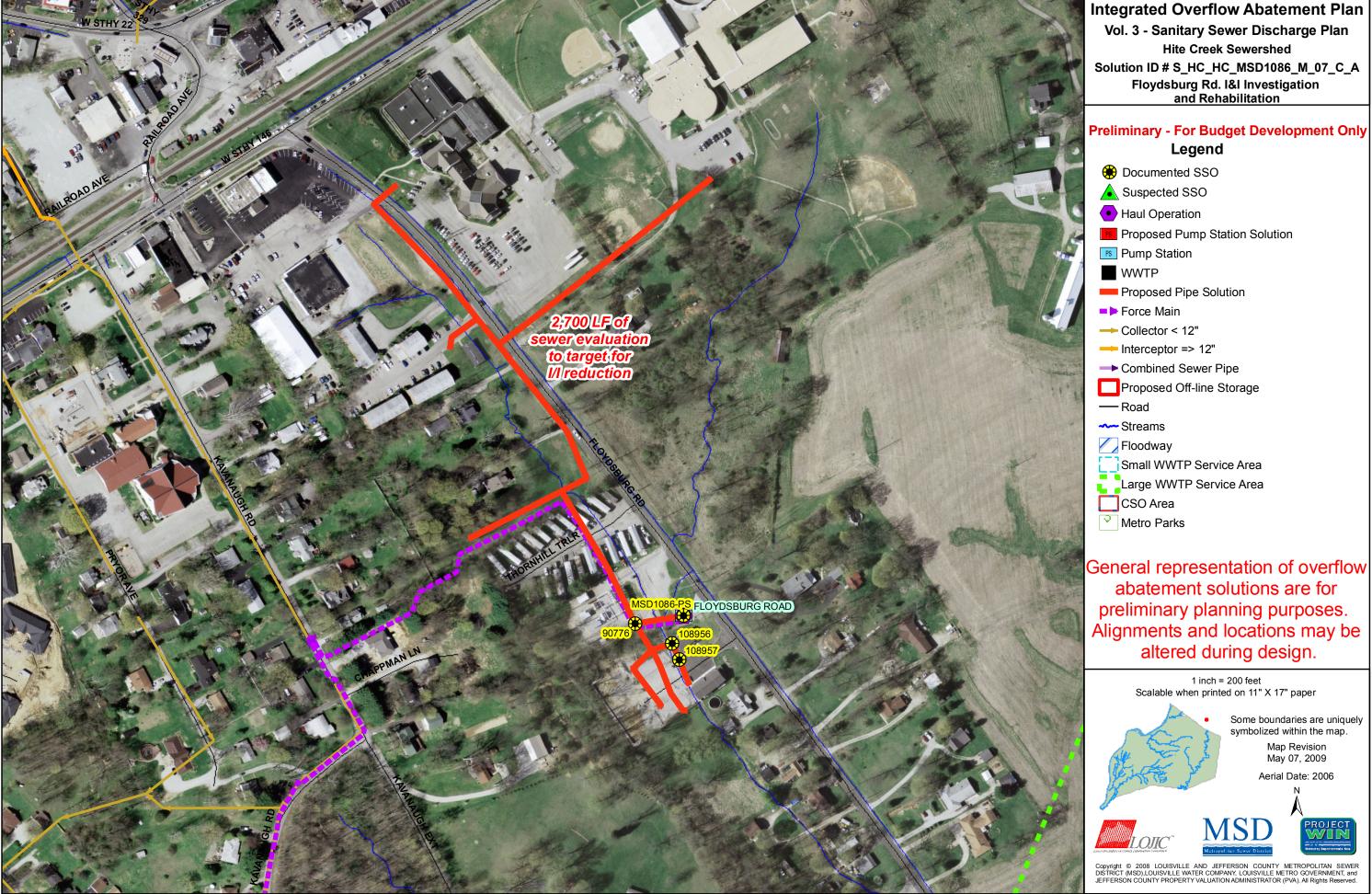
(Present Worth):

Only cost calculated for SSES, no benefits are calculated

Overflow Points Addressed:

<u>sso</u>	SSO Name	Service Area	Overflow Type	<u>Discharge To</u>	Average Overflow / Incident (gallons)
90776	Floydsburg Road #1	Hite Creek	Manhole	Ditch	30,700
108956	Floydsburg Road #2	Hite Creek	Manhole	Stream	75
108957	Floydsburg Road #3	Hite Creek	Manhole	Ditch	85,500
108958	Floydsburg Road #4	Hite Creek	Manhole	Catch Basin	13,000
MSD1086-PS	Floydsburg Road	Hite Creek	Lift Station	Ditch	2,502

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SSO SSDP Project Fact Sheet



SSO Project Number: S_HC_HC_MSD1085_S_03_A

<u>Project Name:</u> Kavanaugh Rd. PS Improvements

Modeled Area: Hite Creek

Branch or SSO ID: MSD1085

<u>Project Type:</u> Pump Station & Force Main Upgrades

Receiving Stream: Hite Creek

<u>Project Description:</u> This alternative includes upgrading the Kavanaugh Road pump station

to handle peak flows of 0.84 MGD and upsize 2,458 LF of force main to

8".

Reason for Overflow: Pump station capacity

<u>Design Parameters / Assumptions:</u> This solution is based on a 2.60 inch cloudburst rain event

<u>Project Constraints:</u> Project will occur in MSD easements or land

Estimated Capital Cost (2008

dollars):

\$1,110,000

Weighted Benefit/Cost Ratio

(Present Worth):

21.09

Overflow Points Addressed:

<u>022</u>	SSO Name	Service Area	Overflow Type	<u>Discharge To</u>	Average Overflow / Incident (gallons)
MSD1085-PS	Kavanaugh Rd	Hite Creek	Lift Station	Ground	176,000

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