

CSO LTCP Project Fact Sheet



LTCP Project Number: L_SO_MF_018_S_03_A_A

Project Name: Nightingale PS Replacement

Project Type: Pump Station Modification

Receiving Stream: Lower Beargrass Creek

Project Description: This project replaces the existing 27MGD NPS with a new 60 MGD NPS. Project includes 5780 LF of 42" force main.

Design Parameters / Assumptions: Pump Station is designed to divert flows from BGI and BGIR to the Southwestern Outfall.

Surrounding Area Land Use: This project area is located within 'Vacant & Undeveloped' property and southwest of CSO018.

Apparent Utilities Description: Proposed piping passes over gas, electric, and water lines

Capital Projects: 2007~Middle Fork Rehab Phase 2 - Awaiting Start

Advanced Site Restoration: The new pump station will incorporate green & LEED elements, plus include stream restoration adjacent to this facility. Though the hydraulic model predicts 0 CSO overflows, any relief structure will be designed to minimize erosion potential.

Estimated Capital Cost (2008): \$15,710,000

Capital Cost / Gallon Overflow Removed: N/A

Weighted Benefit / Cost Ratio (Capital Cost): N/A

Overflow Points Addressed:

<u>CSO Number</u>	<u>CSO Name</u>	<u>CSO Area (Acres)</u>	<u>2008 AAOV (MG / Yr)</u>	<u># of Overflows / Yr</u>	<u>Post LTCP AAOV (MG/Yr)</u>	<u>Post LTCP # Overflows / Year</u>
CSO018	Nightingale Pump Station	0.00	18.69	13	0	0

NOTE: CSO hydraulic statistics are predicted based on InfoWorks model results.

**Integrated Overflow Abatement Plan
Vol. 2 - Final CSO Long Term Control Plan**

South Fork Beargrass Creek
Solution ID # L_SO_MF_018_S_03_A_A
Nightingale Pump Station Replacement

**Preliminary - For Budget Development Only
Legend**

- PS Proposed Pump Station Solution
- Active CSO
- Eliminated CSO
- PS Pump Station
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Streams
- ▨ Floodway
- ▭ Metro Parks
- ▭ County Boundary

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

1 inch equals 700 feet
Scalable when printed on 11" X 17" paper

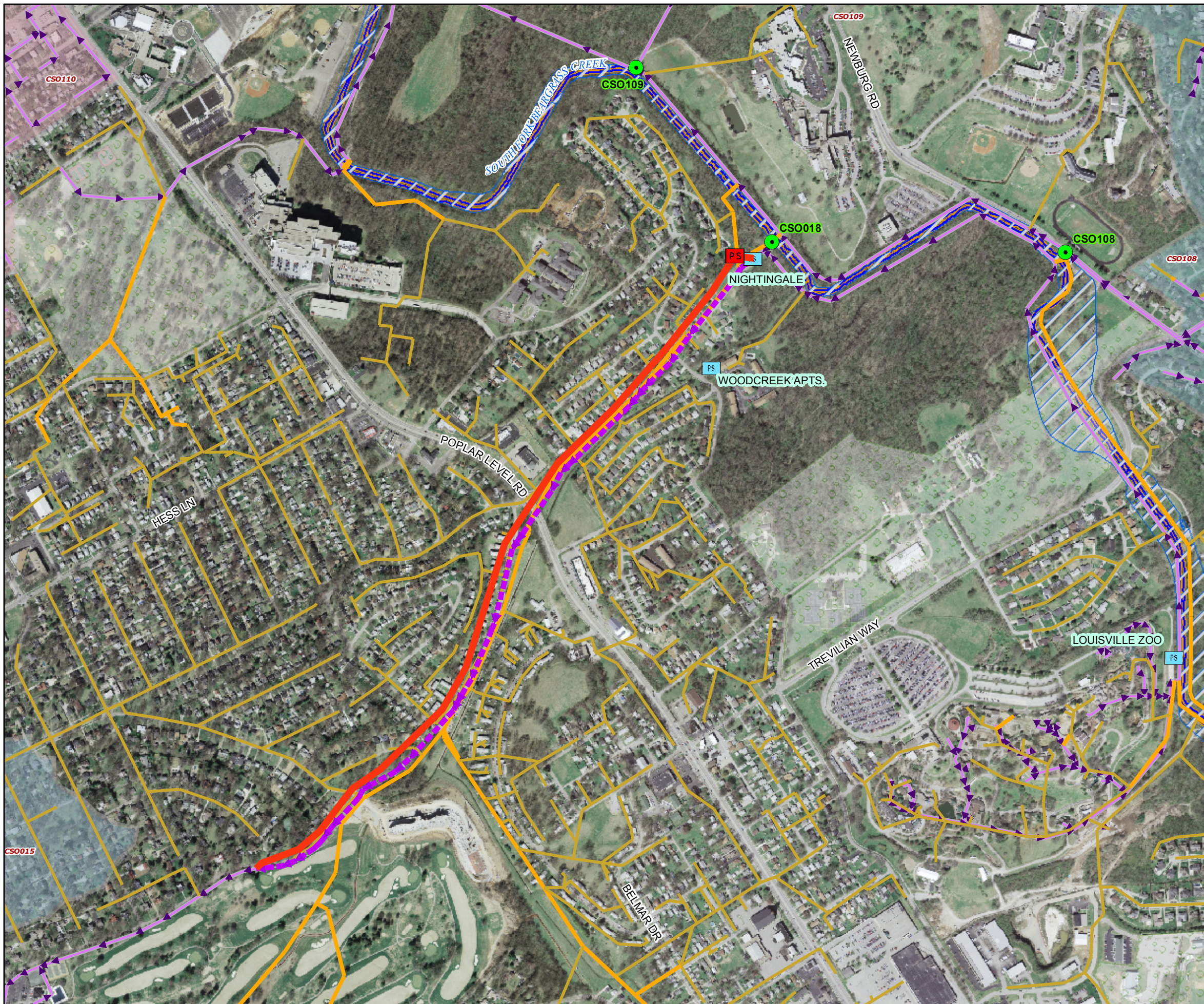


Some boundaries are uniquely symbolized within the map.

Map Revision
December 3, 2008
Aerial Date: 2006



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CSO LTCP Project Fact Sheet



LTCP Project Number: L_SO_MF_130_S_09B_B_A_8

Project Name: Story Avenue and Spring Street Storage Basin

Project Type: Off-Line Storage

Receiving Stream: Lower Beargrass Creek

Project Description: This project includes the construction of a 0.01 MG off-line underground covered storage basin for CSO130 to reduce overflows to 8 overflows per year. The facility will require a small pump station to return the stored flow to the interceptor.

Design Parameters / Assumptions: Basins are designed to the 9th overflow event volume, resulting in 8 CSO overflows/year. The 9th peak flowrate is evaluated to compare gravity vs. pumped conveyance. Design for pump-back is 24 hours. Type of basin based on hydraulics and surroundings.

Surrounding Area Land Use: This project is located within 'Vacant & Undeveloped' & 'General Comm. & Office'. This located is located off of Beargrass Creek

Apparent Utilities Description: No major utilities conflict within the area of the proposed basin

Capital Projects: 2007~Middle Fork Rehabilitation Phase 2; 2013~USI Inspection Program

Advanced Site Restoration: The area of the proposed tank is undeveloped green space. Current and previous public use or development proposals for these areas have identified potential environmental mitigations. The project budget includes a site restoration allowance.

Estimated Capital Cost (2008): \$1,077,000

Capital Cost / Gallon Overflow Removed: \$7.98

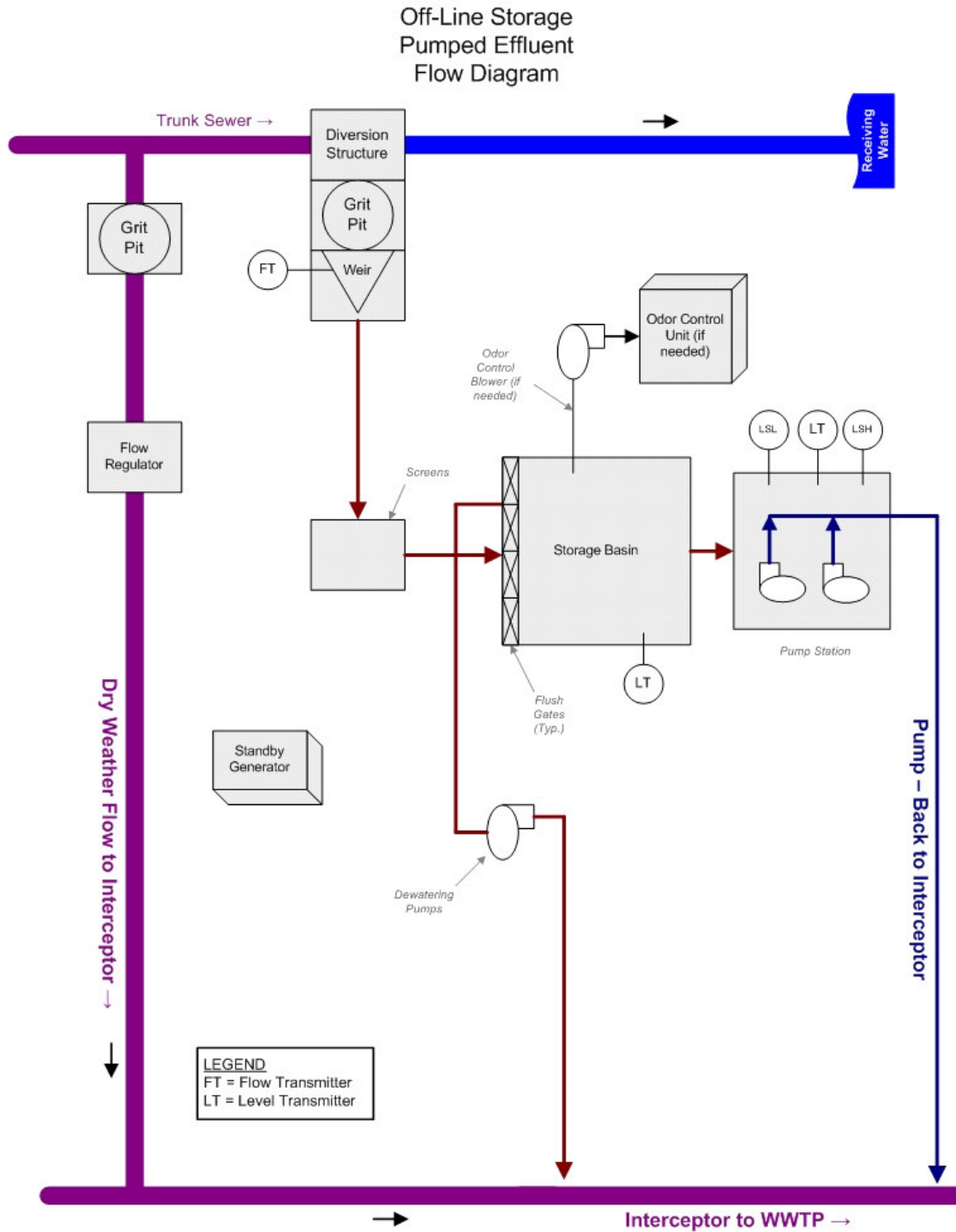
Weighted Benefit / Cost Ratio (Capital Cost): 63.92

Overflow Points Addressed:

<u>CSO Number</u>	<u>CSO Name</u>	<u>CSO Area (Acres)</u>	<u>2008 AAOV (MG / Yr)</u>	<u># of Overflows / Yr</u>	<u>Post LTCP AAOV (MG/Yr)</u>	<u>Post LTCP # Overflows / Year</u>
CSO130	Webster Street	28.41	0.84	9	0.67	8

NOTE: CSO hydraulic statistics are predicted based on InfoWorks model results.

LTCP Project Number: L_SO_MF_130_S_09B_B_A_8



**Integrated Overflow Abatement Plan
Vol. 2 - Final CSO Long Term Control Plan**

South Fork Beargrass Creek
SolutionID # L_SO_MF_130_S_09B_B_A_8
Story Av and Spring St Storage Basin

**Preliminary - For Budget Development Only
Legend**

- PS Proposed Pump Station Solution
- Active CSO
- Eliminated CSO
- PS Pump Station
- Proposed Pipe Solution
- Force Main
- Collector < 12"
- Interceptor => 12"
- Combined Sewer Pipe
- Streams
- Proposed Storage Solution
- Floodway
- Metro Parks
- County Boundary

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