

CSO LTCP Project Fact Sheet



LTCP Project Number: L_MU_MF_154_M_09B_B_A_8

Project Name: Clifton Heights Storage Basin

Project Type: Off-Line Storage

Receiving Stream: Muddy Fork Beargrass Creek

Project Description: This project includes a 6.55 MG underground covered storage basin for CSO132, 154 and 167 to reduced overflows to reduce overflows to eight overflows per year. The facility will require a 6.55 MGD PS to return the stored flow back 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: Project is located within 'Vacant & Undeveloped' property East of Mellwood Ave, and is approximately 40' East of CSO154. Adjacent property includes 'Multi Family Residential', 'Industrial' and 'Single Family Residential'.

Apparent Utilities Description: Prim. UG elec. In. < 25 ft. from NE corner of basin, Secondary UG elec. In. <4 ft. from NE corner of basin, Secondary OH elec. In. < 2 ft. from NW corner of basin

Capital Projects: 2007~East Region Automation FY05-06 & Solids & Floatables Project - In progress; 2007~East Region PS Modification - Under Construction; 2011~RTC @ CSO154 - Awaiting Start

Advanced Site Restoration: MSD will work with Neighborhood council to select and plant native Kentucky species during restoration.

Estimated Capital Cost (2008): \$13,870,000

Capital Cost / Gallon Overflow Removed: \$0.15

Weighted Benefit / Cost Ratio (Capital Cost): 29.46

Overflow Points Addressed:

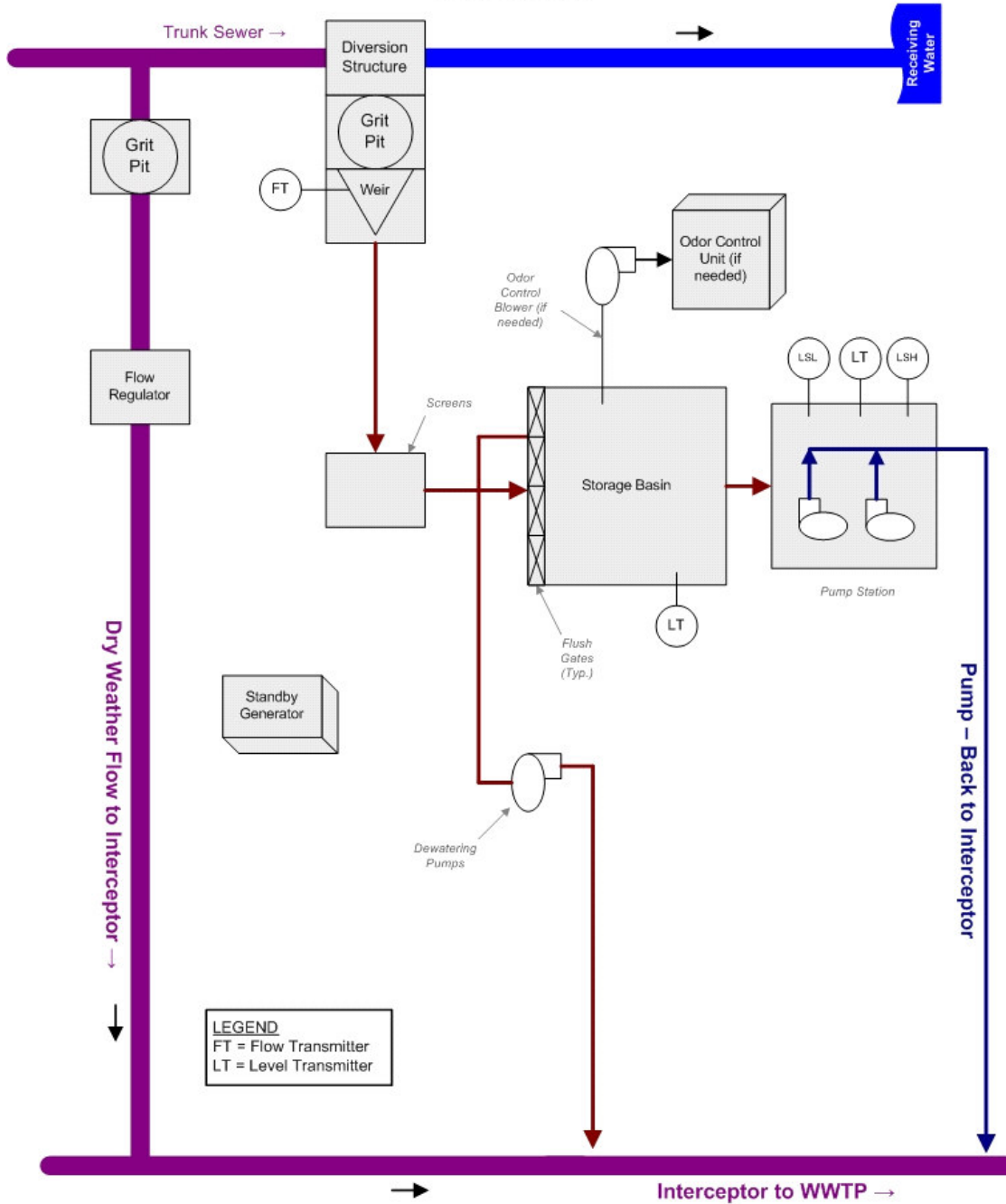
<u>CSO Number</u>	<u>CSO Name</u>	<u>CSO Area (Acres)</u>	<u>2008 AAOV (MG / Yr)</u>	<u># of Overflows / Yr</u>	<u>Post LTCP AAOV (MG/Yr)</u>	<u>Post LTCP # Overflows / Year</u>
CSO132	Regulator Number 35 - Brownsboro	674.01	149.77	56	15.91	8
CSO154	Mellwood Avenue @ Schoeffle	31.02	1.92	15	0.83	8
CSO167	Brownsboro Lat Number 2	11.00	0.96	12	0.83	8

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

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Off-Line Storage
Pumped Effluent
Flow Diagram

















Integrated Overflow Abatement Plan

Volume 2 - Final CSO Long-Term Control Plan

Muddy Fork Beargrass Creek
 Solution ID #L_MU_MF_154_M_09B_B_A_8
 Clifton Heights Storage Basin

Preliminary - For Budget Development Only

Legend

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

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

1 inch = 100 feet
 Scaleable when printed on 11"x17" paper



Some boundaries are uniquely symbolized within the map.

Map Revision
 Mar 13, 2009
 Aerial Date: 2006



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