



Muncie Water Pollution Control Facility
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Protecting the Environment

Muncie Sanitary District

Public Informational Handout

CSO Reduction
Long Term Control Plan

Alternative B

Complete Sewer Separation

WE ARE AN EQUAL OPPORTUNITY EMPLOYER, M/F
LOCATED IN MUNCIE A PROGRESSIVE CITY



John Taylor
305 S Hutchinson Ave
Muncie, IN 47303


March 5, 2010

Board of Sanitary Commissioners
Muncie Sanitary District
City Hall
300 N High St
Muncie, IN 47305

Dear Sanitary Commissioners:

The Citizens Advisory Committee, of which I am a member, has met two times in 2010 to review options to bring the City of Muncie into compliance with federal and state clean water standards with regard to combined sewer overflows. The CAC voted at the meeting on March 3rd to recommend to the Board of Sanitary Commissioners that Alternative B, that is, the plan for complete separation of sanitary and storm sewers, be submitted to the Indiana Department of Environmental Management as the core of Muncie's Long Term Control Plan. This alternative would cost about 160 million dollars and be spread out over the next 30 years. This is the less expensive of two alternatives that would bring Muncie into EPA and IDEM compliance. Other, less expensive alternatives were presented that would not entirely eliminate CSOs and would create additional compliance difficulties for the MSD, potentially costing the City of Muncie much more in the long run than choosing Alternative B. This alternative will be reviewed every five years and adapted as needed to meet regulations and keep costs down as much as possible.

Sincerely,

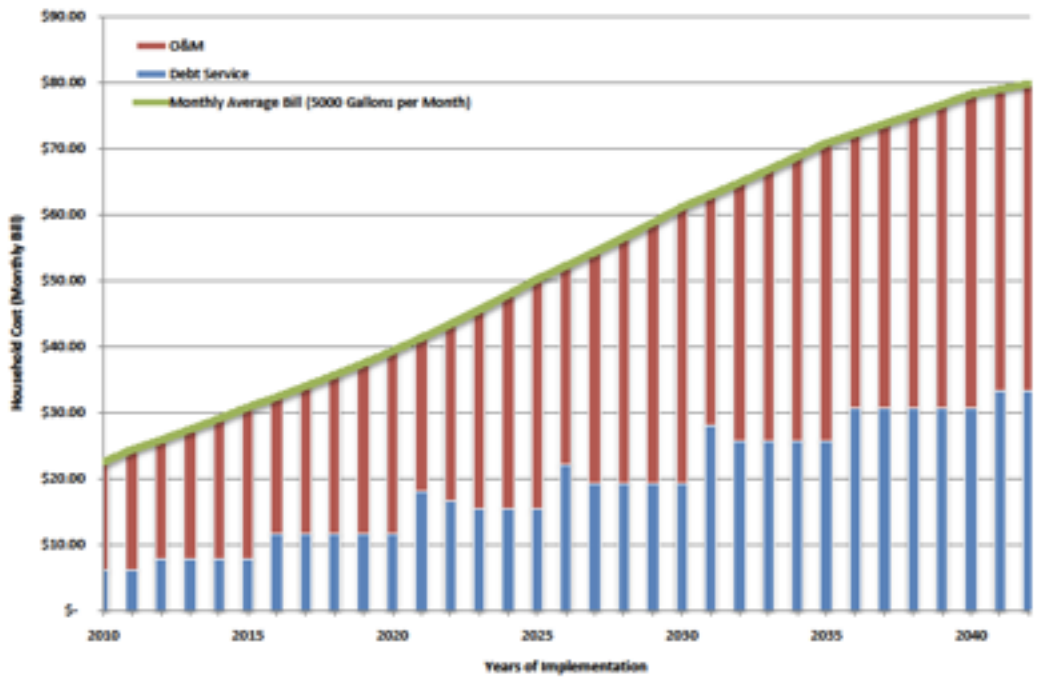


John Taylor
Citizens Advisory Committee Member

Original Table 7-2 Implementation Schedule & Benefit For Projects In Sewer Separation- Alternative B

CSO Control Project Description	CSO Control Project Cost	Target Implementation Time	Probable Annual Treated/Eliminated CSO Volume	Cost (\$/MG)
Projects at the WPCF				
Primary Power Protection Plant	\$5 million	2012-2016		
AWT Pump Addition	\$1.2 million	2016-2020	222	\$ 5,406
WW Pump Station	\$18.7 million	2016-2020	426	\$ 73,882
WW Treatment Facility	\$12.7 million	2021-2025		
Projects in the Collection System				
CSO #1 Separation	\$0.9 million	2021-2025	3	\$ 300,000
CSO #2 Separation	\$0.5 million	2021-2025	8	\$ 62,500
CSO #4 Separation	\$0.1 million	2021-2025	0.1	\$ 1,000,000
CSO#7 Separation	\$3.4 million	2021-2025	37	\$ 91,892
CSO #26 Separation	\$1.8 million	2021-2025	4	\$ 450,000
CSO #9 Separation	\$1.3 million	2021-2025	7	\$ 185,714
CSO #12 Separation	\$5.9 million	2021-2025	56	\$ 100,000
CSO #13 Separation	\$1 million	2021-2025	6	\$ 111,111
CSO #15 SR 32 Replacement Separation	\$18.4 million	2026-2030	103	\$ 178,641
CSO #23 Separation	\$4.5 million	2026-2030	23	\$ 195,652
CSO #24 Separation	\$0.45 million	2026-2030	28	\$ 16,071
CSO #25 Separation	\$0.2 million	2031-2035	0.1	\$ 2,000,000
CSO #18 Separation	\$2.8 million	2031-2035	146	\$ 19,178
CSO #27 Separation	\$4.4 million	2031-2035	11	\$ 400,000
CSO #28 Separation of Flood Sta. #4	\$2 million	2031-2035	20	\$ 100,000
CSO #28 Separation Balance of Area	\$5.8 million	2031-2035	64	\$ 90,625
CSO #22 Separation	\$30.1 million	2036-2041	200	\$ 150,500
CSO #15 Separation Balance of Area	\$38.7 million	2041-2045	207	\$ 188,857
total	\$160 million		1576	\$ 101,510

Alternative B - Sewer Separation - CSO Long Term Control Plan Muncie Sanitary District - March 2010



Sewer Separation Alternative B

Alternative B includes separation of all the combined sewer areas. In this alternative, it is expected that existing infiltration and inflow would exceed the existing WPCF's firm capacity of 30 MGD. Hence the alternative also includes projects to increase the WPCF's firm capacity to 40 MGD along with facilities equivalent to the Wet Weather Pump Station with 75-MGD capacity and a 3-MGD Equalization Basin, to provide treatment for flows that are predicted to exceed the 40 MGD capacity of the WPCF in design storm events.

Individual project costs for Alternative B are summarized in Table 4-8.

**Table 4-8
Summary of Probable Project Costs for Alternative B**

Project Description	Probable Project Cost
CSOs Tributary to Bush Creek:	
CSO 026 Sewer Separation and Elimination of Overflow	\$1,810,000
CSO 025 Sewer Separation and Elimination of Overflow	\$210,000
CSO 034 Sewer Separation and Elimination of Overflow	\$450,000
CSO 025 Sewer Separation and Elimination of Overflow	\$4,570,000
CSO 022 Sewer Separation and Elimination of Overflow	\$30,100,000
CSOs Tributary to White River:	
CSO 018 / White River Interceptor Partial Sewer Separation	\$7,900,000
CSO 027 Sewer Separation and Elimination of Overflow	\$4,400,000
CSO 019 Partial Sewer Separation (SR 32)	\$16,000,000
CSO 015 Sewer Separation and Elimination (not including SR 32 partial sewer separation)	\$38,700,000
CSO 013 Sewer Separation and Elimination of Overflow	\$1,000,000
CSO 012 Sewer Separation and Elimination of Overflow	\$7,500,000
CSO 009 Sewer Separation and Elimination of Overflow	\$1,400,000
CSO 028 Partial Sewer Separation (Area Tributary to CSO 034 Basin, Plant # 4, High Street)	\$200,000
CSO 028 Sewer Separation and Elimination of Overflow (not including CSO 034 Partial Sewer Separation)	\$5,800,000
CSO 007 Sewer Separation and Elimination of Overflow	\$3,400,000
CSO 004 Sewer Separation and Elimination of Overflow	\$110,000
CSO 005 Sewer Separation and Elimination of Overflow	\$450,000
CSO 001 Sewer Separation and Elimination of Overflow	\$860,000
WPCF Modifications for 40 MGD Firm Peak Hourly Flow Capacity	\$1,200,000
WPCF Wet Weather Bar Screen and Pump Station (with 75-MGD Capacity)	\$13,700,000
WPCF Wet Weather Wet Weather Retention / Treatment Facility (with 3-MGD Volume)	\$10,700,000
WPCF Primary Power Improvements	\$5,000,000
Probable Cost for Alternative B	\$159,830,000

For Alternative B, the combined sewage has either been eliminated from the system by sewer separation or is treated by the WPCF or the Wet Weather Flow Retention/Treatment Facility. Hence, this alternative expends 100% of the combined sewage and there are no days with discharges of untreated combined sewage.

History of LTCP Development

- Prepared CSO Reduction Report -1998 to 2000
 - Submitted LTCP –2002
- Submitted Design Storm Alternative in “LTCP update” –2007
- Addressing agency comments –LTCP 2010