

Fecal Coliform Load Reductions with Watershed Management Recommendations

Watershed Management Recommendation	Existing Conditions billion/yr	Future Buildout without Controls billion/yr	Load Increase without Controls billion/yr	Load Increase with Contols							
				Green Infrastructure in CSO areas	New Development LID	Stormwater Retrofits	Riparian Buffer Restoration	Reforestation	Open Space Protection	Public Education	IDDE/Septic systems
BBE	18,530	27,600	9,070	9,070	8,156	8,148	9,070	9,070	6,650	9,049	8,156
BBW	63,816	77,163	13,347	13,347	12,002	11,764	13,347	13,222	9,223	12,847	12,002
BHR	27,292	36,848	9,556	9,556	8,593	8,441	9,556	9,556	7,269	9,537	8,593
CSR	95,667	121,300	25,633	25,633	23,049	22,938	25,633	25,633	18,849	25,454	23,049
FYB	30,696	33,202	2,506	2,506	2,253	2,116	2,506	2,506	2,506	2,250	2,253
NBP (no CSOs)	279,377	333,157	53,780	53,195	48,359	47,736	53,780	53,773	50,304	52,292	48,359
TDB	93,446	113,685	20,239	20,239	18,199	17,855	20,239	20,174	12,038	19,864	18,199
TBS	84,370	126,752	42,382	42,382	38,110	37,945	42,382	42,382	41,638	42,057	38,110
TUX	41,445	56,544	15,099	15,099	13,577	13,469	15,099	15,099	15,081	14,943	13,577
WBN	26,722	35,206	8,484	8,484	7,629	7,419	8,484	8,484	6,680	8,412	7,629
WBS	111,061	143,257	32,196	32,196	28,951	28,584	32,196	32,196	19,068	31,608	28,951
WBW	68,767	116,664	47,897	47,897	43,069	42,990	47,897	47,874	41,337	47,600	43,069
WHR	33,749	59,727	25,978	25,978	23,360	23,319	25,978	25,978	23,008	25,958	23,360
WTR	34,393	50,871	16,478	16,478	14,817	14,578	16,478	16,478	14,915	16,254	14,817
Watershed	1,009,330	1,331,976	322,646	322,061	290,123	287,302	322,646	322,426	268,565	318,124	290,123

Fecal Coliform Load Reductions with Watershed Management Recommendations

Watershed Management Recommendation	Existing Conditions billion/yr	Future Buildout without Controls billion/yr	Load Reduction due to Controls							
			Green Infrastructure in CSO areas	New Development LID	Stormwater Retrofits	Riparian Buffer Restoration	Reforestation	Open Space Protection	Public Education	IDDE/Septic systems
BBE	18,530	27,600	0.0%	10.1%	10.2%	0.00%	0.00%	26.7%	0.2%	10.1%
BBW	63,816	77,163	0.0%	10.1%	11.9%	0.00%	0.94%	30.9%	3.8%	10.1%
BHR	27,292	36,848	0.0%	10.1%	11.7%	0.00%	0.00%	23.9%	0.2%	10.1%
CSR	95,667	121,300	0.0%	10.1%	10.5%	0.00%	0.00%	26.5%	0.7%	10.1%
FYB	30,696	33,202	0.0%	10.1%	15.6%	0.00%	0.00%	0.0%	10.2%	10.1%
NBP (no CSOs)	279,377	333,157	1.1%	10.1%	11.2%	0.00%	0.01%	6.5%	2.8%	10.1%
TDB	93,446	113,685	0.0%	10.1%	11.8%	0.00%	0.32%	40.5%	1.9%	10.1%
TBS	84,370	126,752	0.0%	10.1%	10.5%	0.00%	0.00%	1.8%	0.8%	10.1%
TUX	41,445	56,544	0.0%	10.1%	10.8%	0.00%	0.00%	0.1%	1.0%	10.1%
WBN	26,722	35,206	0.0%	10.1%	12.6%	0.00%	0.00%	21.3%	0.9%	10.1%
WBS	111,061	143,257	0.0%	10.1%	11.2%	0.00%	0.00%	40.8%	1.8%	10.1%
WBW	68,767	116,664	0.0%	10.1%	10.2%	0.00%	0.05%	13.7%	0.6%	10.1%
WHR	33,749	59,727	0.0%	10.1%	10.2%	0.00%	0.00%	11.4%	0.1%	10.1%
WTR	34,393	50,871	0.0%	10.1%	11.5%	0.00%	0.00%	9.5%	1.4%	10.1%
Watershed	1,009,330	1,331,976	0.2%	10.1%	11.0%	0.00%	0.07%	16.8%	1.4%	10.1%

Sediment (TSS) Load Reductions with Watershed Management Recommendations

Watershed Management Recommendation	Existing Conditions	Future Buildout without Controls	Load Increase without Controls	Load Increase with Controls							
	lb/yr	lb/yr	lb/yr	Green Infrastructure in CSO areas	New Development LID	Stormwater Retrofits	Riparian Buffer Restoration	Reforestation	Open Space Protection	Public Education	IDDE/Septic systems
BBE	65,702	103,961	38,259	38,259	36,243	36,231	38,081	38,259	27,052	38,259	36,243
BBW	892,088	1,001,484	109,396	109,396	106,035	104,660	109,142	108,232	87,108	109,396	106,035
BHR	500,837	601,382	100,545	100,545	93,124	90,713	100,438	100,545	78,224	100,545	93,124
CSR	499,416	575,831	76,415	76,415	75,224	74,883	76,310	76,415	54,567	76,415	75,224
FYB	454,764	531,371	76,607	76,607	73,218	72,417	76,607	76,607	76,607	76,607	73,218
NBP (no CSOs)	3,537,838	3,991,783	453,945	435,762	435,891	432,106	453,475	454,633	435,333	453,945	435,891
TDB	1,112,424	1,254,746	142,323	142,323	136,375	134,388	140,646	141,713	76,192	142,323	136,375
TBS	895,817	1,127,110	231,293	231,293	228,635	228,055	230,271	231,293	227,513	231,293	228,635
TUX	381,828	439,446	57,617	57,617	55,905	55,189	57,437	57,617	56,986	57,617	55,905
WBN	527,067	837,496	310,429	310,429	292,233	289,677	310,091	310,429	244,140	310,429	292,233
WBS	1,263,600	1,422,426	158,826	158,826	154,454	152,434	158,287	158,826	84,867	158,826	154,454
WBW	329,983	466,272	136,289	136,289	132,743	132,525	135,887	135,943	118,531	136,289	132,743
WHR	246,421	334,238	87,817	87,817	87,129	86,870	87,817	87,817	77,777	87,817	87,129
WTR	389,091	654,922	265,831	265,831	250,322	248,748	265,759	265,831	260,647	265,831	250,322
Watershed	11,096,876	13,342,468	2,245,591	2,227,409	2,157,531	2,138,896	2,240,247	2,244,176	1,905,543	2,245,591	2,157,531

Sediment (TSS) Load Reductions with Watershed Management Recommendations

Watershed Management Recommendation	Existing Conditions	Future Buildout without Controls	Load Reduction due to Controls							
	lb/yr	lb/yr	Green Infrastructure in CSO areas	New Development LID	Stormwater Retrofits	Riparian Buffer Restoration	Reforestation	Open Space Protection	Public Education	IDDE/Septic systems
BBE	65,702	103,961	0.0%	5.3%	5.3%	0.47%	0.00%	29.3%	0.0%	5.3%
BBW	892,088	1,001,484	0.0%	3.1%	4.3%	0.23%	1.06%	20.4%	0.0%	3.1%
BHR	500,837	601,382	0.0%	7.4%	9.8%	0.11%	0.00%	22.2%	0.0%	7.4%
CSR	499,416	575,831	0.0%	1.6%	2.0%	0.14%	0.00%	28.6%	0.0%	1.6%
FYB	454,764	531,371	0.0%	4.4%	5.5%	0.00%	0.00%	0.0%	0.0%	4.4%
NBP (no CSOs)	3,537,838	3,991,783	4.0%	4.0%	4.8%	0.10%	-0.15%	4.1%	0.0%	4.0%
TDB	1,112,424	1,254,746	0.0%	4.2%	5.6%	1.18%	0.43%	46.5%	0.0%	4.2%
TBS	895,817	1,127,110	0.0%	1.1%	1.4%	0.44%	0.00%	1.6%	0.0%	1.1%
TUX	381,828	439,446	0.0%	3.0%	4.2%	0.31%	0.00%	1.1%	0.0%	3.0%
WBN	527,067	837,496	0.0%	5.9%	6.7%	0.11%	0.00%	21.4%	0.0%	5.9%
WBS	1,263,600	1,422,426	0.0%	2.8%	4.0%	0.34%	0.00%	46.6%	0.0%	2.8%
WBW	329,983	466,272	0.0%	2.6%	2.8%	0.30%	0.25%	13.0%	0.0%	2.6%
WHR	246,421	334,238	0.0%	0.8%	1.1%	0.00%	0.00%	11.4%	0.0%	0.8%
WTR	389,091	654,922	0.0%	5.8%	6.4%	0.03%	0.00%	2.0%	0.0%	5.8%
Watershed	11,096,876	13,342,468	0.8%	3.9%	4.8%	0.24%	0.06%	15.1%	0.0%	3.9%

Nitrogen Load Reductions with Watershed Management Recommendations

Watershed Management Recommendation	Existing Conditions	Future Buildout without Controls	Load Increase without Controls	Load Increase with Controls							
	lb/yr	lb/yr	lb/yr	Green Infrastructure in CSO areas	New Development LID	Stormwater Retrofits	Riparian Buffer Restoration	Reforestation	Open Space Protection	Public Education	IDDE/Septic systems
BBE	778	1,824	1,046	1,046	982	981	1,043	1,045	709	994	982
BBW	8,917	9,895	979	979	905	886	976	942	730	530	905
BHR	6,740	8,113	1,374	1,374	1,263	1,233	1,373	1,374	981	1,056	1,263
CSR	8,825	9,621	796	796	729	724	795	796	503	510	729
FYB	4,349	4,832	483	483	440	428	483	483	483	330	440
NBP (no CSOs)	37,808	42,098	4,290	4,034	3,962	3,906	4,285	4,267	4,101	2,822	3,962
TDB	15,486	17,236	1,750	1,750	1,611	1,582	1,731	1,731	870	1,175	1,611
TBS	10,149	11,516	1,367	1,367	1,259	1,249	1,354	1,367	1,345	666	1,259
TUX	7,142	7,722	579	579	528	518	577	579	573	275	528
WBN	5,187	8,013	2,827	2,827	2,604	2,573	2,823	2,827	2,192	2,555	2,604
WBS	13,603	15,352	1,749	1,749	1,612	1,583	1,743	1,749	907	1,203	1,612
WBW	6,680	6,234	-447	-447	-576	-579	-452	-455	-675	-822	-576
WHR	1,839	2,525	687	687	629	627	687	687	599	-206	629
WTR	4,719	7,523	2,804	2,804	2,584	2,562	2,803	2,804	2,737	2,418	2,584
Watershed	132,220	152,504	20,284	20,028	18,534	18,276	20,221	20,196	16,054	13,506	18,534

Nitrogen Load Reductions with Watershed Management Recommendations

Watershed Management Recommendation	Existing Conditions	Future Buildout without Controls	Load Reduction due to Controls							
	lb/yr	lb/yr	Green Infrastructure in CSO areas	New Development LID	Stormwater Retrofits	Riparian Buffer Restoration	Reforestation	Open Space Protection	Public Education	IDDE/Septic systems
BBE	778	1,824	0.0%	6.1%	6.2%	0.28%	0.05%	32.2%	4.9%	6.1%
BBW	8,917	9,895	0.0%	7.5%	9.5%	0.30%	3.75%	25.4%	45.9%	7.5%
BHR	6,740	8,113	0.0%	8.1%	10.2%	0.08%	0.00%	28.6%	23.1%	8.1%
CSR	8,825	9,621	0.0%	8.4%	9.0%	0.15%	0.00%	36.8%	36.0%	8.4%
FYB	4,349	4,832	0.0%	9.0%	11.3%	0.00%	0.00%	0.0%	31.7%	9.0%
NBP (no CSOs)	37,808	42,098	6.0%	7.6%	9.0%	0.13%	0.54%	4.4%	34.2%	7.6%
TDB	15,486	17,236	0.0%	7.9%	9.6%	1.10%	1.10%	50.3%	32.8%	7.9%
TBS	10,149	11,516	0.0%	7.9%	8.6%	0.95%	0.00%	1.6%	51.3%	7.9%
TUX	7,142	7,722	0.0%	8.8%	10.5%	0.34%	0.00%	1.1%	52.5%	8.8%
WBN	5,187	8,013	0.0%	7.9%	9.0%	0.12%	0.00%	22.5%	9.6%	7.9%
WBS	13,603	15,352	0.0%	7.9%	9.5%	0.35%	0.00%	48.1%	31.2%	7.9%
WBW	6,680	6,234	0.0%	-28.9%	-29.7%	-1.21%	-1.79%	-51.2%	-84.1%	-28.9%
WHR	1,839	2,525	0.0%	8.4%	8.7%	0.00%	0.00%	12.8%	130.0%	8.4%
WTR	4,719	7,523	0.0%	7.8%	8.6%	0.03%	0.00%	2.4%	13.8%	7.8%
Watershed	132,220	152,504	1.3%	8.6%	9.9%	0.31%	0.43%	20.9%	33.4%	8.6%

Phosphorus Load Reductions with Watershed Management Recommendations

Watershed Management Recommendation	Existing Conditions	Future Buildout without Controls	Load Increase without Controls	Load Increase with Controls							
	lb/yr	lb/yr	lb/yr	Green Infrastructure in CSO areas	New Development LID	Stormwater Retrofits	Riparian Buffer Restoration	Reforestation	Open Space Protection	Public Education	IDDE/Septic systems
BBE	112	197	84	84	77	77	84	84	58	83	77
BBW	1,096	1,227	131	131	119	115	130	125	105	115	119
BHR	1,115	1,342	227	227	206	200	227	227	173	222	206
CSR	822	934	112	112	101	100	112	112	75	105	101
FYB	543	641	98	98	89	87	98	98	98	92	89
NBP (no CSOs)	5,121	5,749	628	590	571	561	628	627	604	583	571
TDB	1,660	1,885	224	224	204	198	223	221	116	208	204
TBS	937	1,118	181	181	164	162	181	181	178	163	164
TUX	672	748	75	75	68	66	75	75	74	67	68
WBN	845	1,363	518	518	470	464	518	518	406	518	470
WBS	1,778	1,982	204	204	186	180	204	204	107	186	186
WBW	602	779	178	178	158	157	177	176	148	167	158
WHR	332	439	107	107	96	95	107	107	93	99	96
WTR	657	1,126	469	469	426	422	469	469	462	462	426
Watershed	16,291	19,528	3,237	3,199	2,935	2,886	3,233	3,225	2,698	3,070	2,935

Phosphorus Load Reductions with Watershed Management Recommendations

Watershed Management Recommendation	Existing Conditions	Future Buildout without Controls	Load Reduction due to Controls							
	lb/yr	lb/yr	Green Infrastructure in CSO areas	New Development LID	Stormwater Retrofits	Riparian Buffer Restoration	Reforestation	Open Space Protection	Public Education	IDDE/Septic systems
BBE	112	197	0.0%	8.6%	8.7%	0.18%	0.03%	31.0%	1.4%	8.6%
BBW	1,096	1,227	0.0%	8.9%	11.8%	0.12%	4.52%	19.6%	11.8%	8.9%
BHR	1,115	1,342	0.0%	9.2%	11.9%	0.03%	0.00%	23.9%	2.5%	9.2%
CSR	822	934	0.0%	10.1%	11.0%	0.06%	0.00%	32.8%	6.6%	10.1%
FYB	543	641	0.0%	9.3%	11.4%	0.00%	0.00%	0.0%	6.2%	9.3%
NBP (no CSOs)	5,121	5,749	6.0%	9.1%	10.7%	0.04%	0.18%	3.8%	7.2%	9.1%
TDB	1,660	1,885	0.0%	9.2%	11.5%	0.45%	1.38%	48.1%	7.1%	9.2%
TBS	937	1,118	0.0%	9.5%	10.4%	0.34%	0.00%	1.9%	10.0%	9.5%
TUX	672	748	0.0%	9.4%	12.0%	0.14%	0.00%	1.5%	10.4%	9.4%
WBN	845	1,363	0.0%	9.2%	10.5%	0.04%	0.00%	21.6%	0.1%	9.2%
WBS	1,778	1,982	0.0%	9.0%	11.7%	0.16%	0.00%	47.4%	8.9%	9.0%
WBW	602	779	0.0%	11.0%	11.4%	0.15%	0.81%	16.8%	6.0%	11.0%
WHR	332	439	0.0%	10.0%	10.4%	0.00%	0.00%	12.7%	7.1%	10.0%
WTR	657	1,126	0.0%	9.2%	10.1%	0.01%	0.00%	1.5%	1.5%	9.2%
Watershed	16,291	19,528	1.2%	9.3%	10.8%	0.10%	0.36%	16.6%	5.1%	9.3%