



Handout 1

Summary of five year forecast to adequately fund the Clean Water Program and maintain existing services for the next five years

Fiscal Year	Total Program Costs	General Fund	Cash Funds*	Federal Funds	Subtotal	Program Deficit
Baseline: 2016-17	\$12,166,100	\$3,260,137	\$5,647,862	\$1,382,435	\$10,290,434	\$1,875,666
Year 1: 2017-18	\$12,597,447	\$3,390,542	\$5,873,776	\$1,382,435	\$10,646,754	\$1,950,693
Year 2: 2018-19	\$13,046,047	\$3,526,164	\$6,108,727	\$1,382,435	\$11,017,326	\$2,028,721
Year 3: 2019-20	\$13,512,592	\$3,667,211	\$6,353,077	\$1,382,435	\$11,402,722	\$2,109,870
Year 4: 2020-21	\$13,997,798	\$3,813,899	\$6,607,200	\$1,382,435	\$11,803,533	\$2,194,264
Year 5: 2021-22	\$14,502,412	\$3,966,455	\$6,871,488	\$1,382,435	\$12,220,377	\$2,282,035
Average of 2017-18 through 2021-22	\$13,531,259	\$3,672,854	\$6,362,854	\$1,382,435	\$11,418,143	\$2,113,117

*Note - the cash funds included in this forecast do not include funds required to develop a cash fund balance. Cash fund balance information is included in subsequent handouts as part of the scenarios.



Handout 2

Total program cost to adequately fund the Clean Water Program and maintain existing services for the next five years by sector

Clean Water Sectors	Total Program Costs	General Fund	Cash Funds*	Federal Funds	Subtotal	Program Deficit
Commerce and Industry	\$3,733,961	\$1,617,958	\$1,099,948	\$382,120	\$3,100,026	\$633,935
Construction	\$2,916,129	\$377,822	\$2,246,079	\$292,228	\$2,916,129	\$0
MS4	\$435,700	\$122,317	\$162,743	\$44,985	\$330,045	\$105,655
Pesticide	\$221,959	\$187,633	\$12,083	\$22,243	\$221,959	\$0
Public/Private Utilities	\$5,802,440	\$1,355,134	\$2,475,116	\$598,664	\$4,428,913	\$1,373,527
WQ Certification	\$421,070	\$11,990	\$366,885	\$42,196	\$421,070	\$0
Total	\$13,531,259	\$3,672,854	\$6,362,854	\$1,382,435	\$11,418,143	\$2,113,117

*Note - the cash funds included in this forecast do not include funds required to develop a cash fund balance. Cash fund balance information is included in subsequent handouts as part of the scenarios.



Handout 3

Comparison of fee changes by scenario

Clean Water Sectors	Scenario 1 Resolve the deficit with cash funds	Scenario 2 Resolve deficit based on current General Fund to cash funds ratio for Commerce and Industry, MS4 and Public/Private Utilities sectors	Scenario 3 Resolve deficit through 50/50 General Fund to cash funds ratio for Commerce and Industry, MS4 and Public/Private Utilities sectors	Scenario 4 Resolve the deficit with General Fund
Commerce and Industry	83%	82%	77%	16%
Construction	3.3%	3.3%	3.3%	3.3%
MS4	92%	57%	40%	16%
Pesticide	3.3%	3.3%	3.3%	3.3%
Public/Private Utilities	81%	3.4%	22%	16%
WQ Certification	*	*	*	*

*The department recommends that Tier 1 and Tier 2 fees for water quality certifications be increased by 3.3% to build a fund balance for this sector over a 5-year period. Tier 3 and Tier 4 fees are based on recovering actual cost.



Handout 4

Comparison of General Fund change by scenario

	Scenario 1 Resolve the deficit with cash funds	Scenario 2 Resolve deficit based on current General Fund to cash funds ratio for Commerce and Industry, MS4 and Public/Private Utilities sectors	Scenario 3 Resolve deficit through 50/50 General Fund to cash funds ratio for Commerce and Industry, MS4 and Public/Private Utilities sectors	Scenario 4 Resolve the deficit with General Fund
Total General Fund for scenario	\$3,926,603	\$5,635,864	\$5,303,737	\$6,039,719
General Fund increase based on scenario	\$0	\$1,709,262	\$1,377,134	\$2,113,117

Handout 5

Scenario 1 - Resolve the deficit with cash funds

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]	[L]	[M]	[N]	[O]	[P]	
Clean Water Sectors	Total program cost to adequately fund the Clean Water Program and maintain existing services for the next five years.						Calculation of cash fees that are appropriate and necessary to adequately maintain existing services for the next five years. Cash fees are based on sector specific assumptions.									
	Total	General Fund	Cash Funds	Federal Funds	Subtotal	Program Deficit	General Fund and Cash Funds minus Federal Funds	General Fund	Cash Funds	Cash Funds Required to Develop Fund Balance	Estimated Cash Revenue	Cash Revenue Difference	Fee Change	General Fund Ratio	Cash Funds Ratio	
Commerce and Industry	\$3,733,961	\$1,617,958	\$1,099,948	\$382,120	\$3,100,026	\$633,935	\$3,351,841	\$1,617,958	\$1,733,883	\$1,791,101	\$976,347	\$814,754	83%	48%	52%	
Construction	\$2,916,129	\$377,822	\$2,246,079	\$292,228	\$2,916,129	\$0	\$2,623,901	\$630,213	\$1,993,688	\$2,059,480	\$1,993,688	\$65,792	3.3%	24%	76%	
MS4	\$435,700	\$122,317	\$162,743	\$44,985	\$330,045	\$105,655	\$390,716	\$122,317	\$268,399	\$277,256	\$144,456	\$132,800	92%	31%	69%	
Pesticide	\$221,959	\$187,633	\$12,083	\$22,243	\$221,959	\$0	\$199,716	\$188,991	\$10,725	\$11,079	\$10,725	\$354	3.3%	95%	5%	
Public/Private Utilities	\$5,802,440	\$1,355,134	\$2,475,116	\$598,664	\$4,428,913	\$1,373,527	\$5,203,776	\$1,355,134	\$3,848,642	\$3,975,648	\$2,196,988	\$1,778,660	81%	26%	74%	
WQ Certification*	\$421,070	\$11,990	\$366,885	\$42,196	\$421,070	\$0	\$378,875	\$11,990	\$387,661	\$400,454	\$342,753	\$57,701	*	3%	102%	
Total	\$13,531,259	\$3,672,854	\$6,362,854	\$1,382,435	\$11,418,143	\$2,113,117	\$12,148,824	\$3,926,603	\$8,242,998	\$8,515,017	\$5,664,957	\$2,850,060	50%	32%	68%	

*The department recommends that the Tier 1 and Tier 2 fees for water quality certifications be increased by 3.3% to build a fund balance for this sector over a 5-year period. Tier 3 and Tier 4 fees are based on recovering actual cost.

Column [B] summarizes the total program cost to adequately fund the Clean Water Program and maintain existing services for the next five years.

Column [C] is the estimated General Fund portion of the total program cost based on the five-year forecast.

Column [D] is the estimated cash funds portion of the total program cost based on the five-year forecast.

Column [E] is the estimated federal funds portion of the total program cost based on the five-year forecast.

Column [F] is the subtotal of [C] + [D] + [E].

Column [G] is the difference between [B] and [F].

Column [H] is the total of [C] + [D] + [E].

Column [I] is equal to [C] for the Commerce and Industry, MS4 and Public/Private Utilities sectors. For the Construction, Pesticides and Water Quality Certification Sectors the amount of General Fund was estimated so that the cash fee increase does not exceed 3.3%.

Column [J] is the sum of [D] and [G] for the Commerce and Industry, MS4 and Public/Private Utilities sectors. For the Construction, Pesticides and Water Quality Certification Sectors the amount of General Fund was estimated so that the cash fee increase does not exceed 3.3%.

Column [K] is the value of [J] escalated by 3.3%.

Column [L] is the estimated revenue by sector.

Column [M] is difference between [K] and [L].

Column [N] is the % fee change.

Column [O] is [I] divided by [H].

Column [P] is [J] divided by [H].

Handout 6

Scenario 2 - Resolve the deficit based on current General Fund to cash funds ratios

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]	[L]	[M]	[N]	[O]	[P]	
Clean Water Sectors	Total program cost to adequately fund the Clean Water Program and maintain existing services for the next five years						Calculation of cash fees that are appropriate and necessary to adequately maintain existing services for the next five years. Cash fees are based on sector specific assumptions.									
	Total	General Fund	Cash Funds	Federal Funds	Subtotal	Program Deficit	General Fund and Cash Funds minus Federal Funds	General Fund Ratio	Cash Funds Ratio	General Fund	Cash Funds	Cash Funds Required to Develop Fund Balance	Estimated Cash Revenue	Cash Revenue Difference	Fee Change	
Commerce and Industry	\$3,733,961	\$1,617,958	\$1,099,948	\$382,120	\$3,100,026	\$633,935	\$3,351,841	49%	51%	\$1,630,065	\$1,721,776	\$1,778,595	\$976,347	\$802,248	82%	
Construction	\$2,916,129	\$377,822	\$2,246,079	\$292,228	\$2,916,129	\$0	\$2,623,901	24%	76%	\$630,213	\$1,993,688	\$2,059,480	\$1,993,688	\$65,792	3.3%	
MS4	\$435,700	\$122,317	\$162,743	\$44,985	\$330,045	\$105,655	\$390,716	44%	56%	\$170,664	\$220,051	\$227,313	\$144,456	\$82,857	57%	
Pesticide	\$221,959	\$187,633	\$12,083	\$22,243	\$221,959	\$0	\$199,716	95%	5%	\$188,991	\$10,725	\$11,079	\$10,725	\$354	3.3%	
Public/Private Utilities	\$5,802,440	\$1,355,134	\$2,475,116	\$598,664	\$4,428,913	\$1,373,527	\$5,203,776	58%	42%	\$3,004,565	\$2,199,211	\$2,271,785	\$2,196,988	\$74,797	3%	
WQ Certification*	\$421,070	\$11,990	\$366,885	\$42,196	\$421,070	\$0	\$378,875	3%	97%	\$11,366	\$367,508	\$379,636	\$342,753	\$36,883	*	
Total	\$13,531,259	\$3,672,854	\$6,362,854	\$1,382,435	\$11,418,143	\$2,113,117	\$12,148,824	46%	54%	\$5,635,864	\$6,512,960	\$6,727,888	\$5,664,957	\$1,062,931	19%	

*The department recommends that the Tier 1 and Tier 2 fees for water quality certifications be increased by 3.3% to build a fund balance for this sector over a 5-year period. Tier 3 and Tier 4 fees are based on recovering actual cost.

Column [B] summarizes the total program cost to adequately fund the Clean Water Program and maintain existing services for the next five years.

Column [C] is the estimated General Fund portion of the total program cost based on the five-year forecast.

Column [D] is the estimated cash funds portion of the total program cost based on the five-year forecast.

Column [E] is the estimated federal funds portion of the total program cost based on the five-year forecast.

Column [F] is the subtotal of [C] + [D] + [E].

Column [G] is the difference between [B] and [F].

Column [H] is the total of [C] + [D] + [E].

Column [I] is the General Fund ratio based on current General Fund to cash funds ratio for Commerce and Industry, MS4 and Public and Private Utilities. For Construction, Pesticides and WQ Certifications the ratios are set to maintain a 3.3% fee increase to develop a fund balance.

Column [J] is the cash funds ratio based on current General Fund to cash funds ratio for Commerce and Industry, MS4 and Public and Private Utilities. For Construction, Pesticides and WQ Certifications the ratios are set to maintain a 3.3% fee increase to develop a fund balance.

Column [K] is [H] multiplied by [I].

Column [L] is [H] multiplied by [J].

Column [M] is the value of [L] escalated by 3.3%.

Column [N] is the estimated revenue by sector.

Column [O] is difference between [M] and [N]

Column [P] is the % fee change.

Handout 7

Scenario 3 - Resolve deficit through 50/50 General Fund to cash funds ratio for Commerce and Industry, MS4 and Public/Private Utilities sectors

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]	[L]	[M]	[N]	[O]	[P]	
Clean Water Sectors	Total program cost to adequately fund the Clean Water Program and maintain existing services for the next five years						Calculation of cash fees that are appropriate and necessary to adequately maintain existing services for the next five years. Cash fees are based on sector specific assumptions.									
	Total	General Fund	Cash Funds	Federal Funds	Subtotal	Program Deficit	General Fund and Cash Funds minus Federal Funds	General Fund Ratio	Cash Funds Ratio	General Fund	Cash Funds	Cash Funds Required to Develop Fund Balance	Estimated Cash Revenue	Cash Revenue Difference	Fee Change	
Commerce and Industry	\$3,733,961	\$1,617,958	\$1,099,948	\$382,120	\$3,100,026	\$633,935	\$3,351,841	50%	50%	\$1,675,920	\$1,675,920	\$1,731,226	\$976,347	\$754,879	77%	
Construction	\$2,916,129	\$377,822	\$2,246,079	\$292,228	\$2,916,129	\$0	\$2,623,901	24%	76%	\$630,213	\$1,993,688	\$2,059,480	\$1,993,688	\$65,792	3.3%	
MS4	\$435,700	\$122,317	\$162,743	\$44,985	\$330,045	\$105,655	\$390,716	50%	50%	\$195,358	\$195,358	\$201,805	\$144,456	\$57,349	40%	
Pesticide	\$221,959	\$187,633	\$12,083	\$22,243	\$221,959	\$0	\$199,716	95%	5%	\$188,991	\$10,725	\$11,079	\$10,725	\$354	3.3%	
Public/Private Utilities	\$5,802,440	\$1,355,134	\$2,475,116	\$598,664	\$4,428,913	\$1,373,527	\$5,203,776	50%	50%	\$2,601,888	\$2,601,888	\$2,687,750	\$2,196,988	\$490,762	22%	
WQ Certification*	\$421,070	\$11,990	\$366,885	\$42,196	\$421,070	\$0	\$378,875	3%	97%	\$11,366	\$367,508	\$379,636	\$342,753	\$36,883	*	
Total	\$13,531,259	\$3,672,854	\$6,362,854	\$1,382,435	\$11,418,143	\$2,113,117	\$12,148,824	44%	56%	\$5,303,737	\$6,845,088	\$7,070,976	\$5,664,957	\$1,406,019	25%	

*The department recommends that the Tier 1 and Tier 2 fees for water quality certifications be increased by 3.3% to build a fund balance for this sector over a 5-year period. Tier 3 and Tier 4 fees are based on recovering actual cost.

Column [B] summarizes the total program cost to adequately fund the Clean Water Program and maintain existing services for the next five years.

Column [C] is the estimated General Fund portion of the total program cost based on the five-year forecast.

Column [D] is the estimated cash funds portion of the total program cost based on the five-year forecast.

Column [E] is the estimated federal funds portion of the total program cost based on the five-year forecast.

Column [F] is the subtotal of [C] + [D] + [E].

Column [G] is the difference between [B] and [F].

Column [H] is the total of [C] + [D] + [E].

Column [I] is the General Fund ratio based on 50/50 split of General Funds and Cash Funds for Commerce and Industry, MS4 and Public and Private Utilities. For Construction, Pesticides and WQ Certifications the ratios are set to maintain a 3.3% fee increase to develop a fund balance.

Column [J] is the cash funds ratio based on 50/50 split of General Funds and Cash Funds for Commerce and Industry, MS4 and Public and Private Utilities. For Construction, Pesticides and WQ Certifications the ratios are set to maintain a 3.3% fee increase to develop a fund balance.

Column [K] is [H] multiplied by [I].

Column [L] is [H] multiplied by [J].

Column [M] is the value of [L] escalated by 3.3%.

Column [N] is the estimated revenue by sector.

Column [O] is difference between [M] and [N].

Column [P] is the % fee change.

Handout 8

Scenario 4 - Resolve the deficit with General Fund

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]	[L]	[M]	[N]	[O]	[P]	
Clean Water Sectors	Total program cost to adequately fund the Clean Water Program and maintain existing services for the next five years.						Calculation of cash fees that are appropriate and necessary to adequately maintain existing services for the next five years. Cash fees are based on sector specific assumptions.									
	Total	General Fund	Cash Funds	Federal Funds	Subtotal	Program Deficit	General Fund and Cash Funds minus Federal Funds	General Fund	Cash Funds	Cash Funds Required to Develop Fund Balance	Estimated Cash Revenue	Cash Revenue Difference	Fee Change	General Fund Ratio	Cash Funds Ratio	
Commerce and Industry	\$3,733,961	\$1,617,958	\$1,099,948	\$382,120	\$3,100,026	\$633,935	\$3,351,841	\$2,251,893	\$1,099,948	\$1,136,246	\$976,347	\$159,899	16%	67%	33%	
Construction	\$2,916,129	\$377,822	\$2,246,079	\$292,228	\$2,916,129	\$0	\$2,623,901	\$630,213	\$1,993,688	\$2,059,480	\$1,993,688	\$65,792	3.3%	24%	76%	
MS4	\$435,700	\$122,317	\$162,743	\$44,985	\$330,045	\$105,655	\$390,716	\$227,972	\$162,743	\$168,114	\$144,456	\$23,658	16%	58%	42%	
Pesticide	\$221,959	\$187,633	\$12,083	\$22,243	\$221,959	\$0	\$199,716	\$188,991	\$10,725	\$11,079	\$10,725	\$354	3.3%	95%	5%	
Public/Private Utilities	\$5,802,440	\$1,355,134	\$2,475,116	\$598,664	\$4,428,913	\$1,373,527	\$5,203,776	\$2,728,660	\$2,475,116	\$2,556,795	\$2,196,988	\$359,807	16%	52%	48%	
WQ Certification*	\$421,070	\$11,990	\$366,885	\$42,196	\$421,070	\$0	\$378,875	\$11,990	\$387,661	\$400,454	\$342,753	\$57,701	*	3%	102%	
Total	\$13,531,259	\$3,672,854	\$6,362,854	\$1,382,435	\$11,418,143	\$2,113,117	\$12,148,824	\$6,039,719	\$6,129,881	\$6,332,167	\$5,664,957	\$667,210	12%	50%	50%	

*The department recommends that the Tier 1 and Tier 2 fees for water quality certifications be increased by 3.3% to build a fund balance for this sector over a 5-year period. Tier 3 and Tier 4 fees are based on recovering actual cost.

Column [B] summarizes the total program cost to adequately fund the Clean Water Program and maintain existing services for the next five years.

Column [C] is the estimated General Fund portion of the total program cost based on the five-year forecast.

Column [D] is the estimated cash funds portion of the total program cost based on the five-year forecast.

Column [E] is the estimated federal funds portion of the total program cost based on the five-year forecast.

Column [F] is the subtotal of [C] + [D] + [E].

Column [G] is the difference between [B] and [F].

Column [H] is the total of [C] + [D] + [E].

Column [I] is the sum of [C] + [G] for the Commerce and Industry, MS4 and Public/Private Utilities sectors. For the Construction, Pesticides and Water Quality Certification Sectors the amount of General Fund was estimated so that the cash fee increase does not exceed 3.3%.

Column [J] is equal to [D] for the Commerce and Industry, MS4 and Public/Private Utilities sectors. For the Construction, Pesticides and Water Quality Certification Sectors the amount of General Fund was estimated so that the cash fee increase does not exceed 3.3%.

Column [K] is the value of [J] escalated by 3.3%.

Column [L] is the estimated revenue by sector.

Column [M] is difference between [K] and [L].

Column [N] is the % fee change.

Column [O] is [I] divided by [H].

Column [P] is [J] divided by [H].