

## APPENDIX K WASTE REDUCTION AND RECYCLING RATES AND DEMONSTRATION OF ACHIEVING GOAL 2

### **Goal 2: Waste Reduction and Recycling Rates**

*The SWMD shall reduce and recycle at least 25 percent of the solid waste generated by the residential/commercial sector and at least 66 percent of the solid waste generated by the industrial sector.*

### **Purpose** (remove these instructions for the solid waste management plan)

In this appendix, the policy committee will demonstrate the SWMD's progress toward achieving the waste reduction and recycling rates established in Goal 2 of the 2009 State Solid Waste Management Plan. The policy committee will calculate and present waste reduction and recycling rates for both the residential/commercial and industrial sectors for the reference year and for all years in the planning period. Each policy committee will complete this appendix regardless of whether the SWMD is pursuing Goal 1 or Goal 2. The policy committee will also use the information for the reference year in this appendix to perform a diversion analysis in Appendix H.

Also in this Appendix, a policy committee that opts for the SWMD to achieve Goal 2 in its plan will also demonstrate that the SWMD achieved or will achieve the prescribed recycling rates.

**[NOTE:** *As was explained in the "Interrelationship of Appendices", the policy committee may have to evaluate the waste reduction and recycling rates more than once before being able to demonstrate achieving Goal 2 or, for Goal 1, demonstrate increasing its reduction and recycling rate. This would be the case if the policy committee is unable to demonstrate that the SWMD achieved the required rates (for Goal 2) or increases (for Goal 1) after making initial projections of quantities to be recovered based on planned programs and activities (projections for recovery are in Appendix E for residential/commercial waste and Appendix F for industrial waste). In that situation, the policy committee will revisit the strategic program evaluation in Appendix H, develop additional or expand existing strategies and programs to recover more material. The policy committee will describe those programs in Appendix I, revise the recovery projections in Appendix E and/or Appendix F, and reevaluate the waste reduction and recycling rates in Appendix G. The policy committee will repeat this process as many times as necessary until it can demonstrate that the SWMD will achieve the 25 percent and 66 percent rates (for Goal 2) or achieve increases in its rates (for Goal 1).]*

### **Instructions** (remove these instructions for the solid waste management plan)

1) Calculate waste reduction and recycling rates

Complete Tables K-1, K-2, and K-3 regardless of whether the SWMD will achieve Goal 1 or Goal 2.

### **Completing Tables K-1, K-2, and K-3:**

The spreadsheets for these three tables are found in the workbook on tabs K-1, K-2, and K-3. All three tables will provide data for the reference year and all years of the planning period.

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Years – The years will prepopulate based on the year entered for the reference year in Tab A.

**[NOTE: Data for all three tables will be automatically populated and all calculations will be performed automatically.]**

**[NOTE: Excluded waste has been removed from the quantities used in these tables regardless of whether excluded waste comprised more than 10 percent of total generation in the reference year. Excluded waste does not factor into the waste reduction and recycling rates.]**

Data for the three tables will come from the following portions of the solid waste management plan

- Waste reduced and recycled:
  - Residential/Commercial –Appendix E, Table E-4 (for reference year) and Table E-5(for planning period)
  - Industrial –Appendix F, Table F-4 (for reference year) and Table F-5 (for planning period).
- Waste Disposed
  - For both residential/commercial and industrial - Appendix D, Table D-3 (for reference year) and Table D-5 (for planning period)
- Waste Generated
  - For both residential/commercial and industrial – Appendix G, Table G-1 (for reference year) and Table G-2 (for planning period)
- Population
  - From Appendix C, Table C-1 (for reference year) and Table C-2 (for planning period)

Waste Reduction & Recycling Rate - Tables K-1 through K-3 contain embedded formulas that will automatically calculate the waste reduction and recycling rates. The formula for all three tables is as follows:

Waste Reduction & Recycling Rate = (Waste Reduced & Recycled ÷ Waste Generated) x 100

Identifying the first year of the planning period – For each table, you need to identify the first year of the planning period. You will do this in column B on each on tabs K-1, K-2, and K-3. There are three framed cells in column B for each table. Enter an “X” in the cell next to the year that is the first year of the planning period. It is important that you enter an “X” for one of the three years for each table, but don’t enter more than one “X” on an individual spreadsheet.

In the space provided after each table, provide any text necessary to explain the data in the tables.

### **SWMDs Achieving Goal 2**

In addition to 1 above, a policy committee opting for the SWMD to achieve Goal 2 must demonstrate meeting either 2a **OR** 2b **AND** 3 **AND** 4 below.

- 2a) The policy committee must demonstrate that the SWMD achieved the 25 percent residential/commercial waste reduction & recycling goal and the 66 percent industrial waste reduction and recycling goal in the reference year.

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### OR

- 2b) The policy committee must demonstrate that the SWMD will achieve the 25 percent residential/commercial waste reduction & recycling goal and the 66 percent industrial waste reduction and recycling goal within the first three years of the planning period.

### AND

- 3) If the policy committee opted for the SWMD to demonstrate achieving Goal 2 in its current approved plan, the SWMD did not achieve the goal during the reference year, and the policy committee intends to demonstrate the SWMD will achieve Goal 2 in its plan update, then the policy committee will need to explain how the SWMD will overcome past problems and what it will do differently to achieve the goal this time around. The policy committee cannot rely on the same programs and activities to demonstrate achieving the goal a second time.

**[NOTE:** *If one of the reasons for not achieving the goal is lack of data, then the policy committee will need to demonstrate that the SWMD will improve its data collection efforts during the planning period.*]

### AND

- 4) The plan must demonstrate that the SWMD will continue to meet or exceed the 25 percent residential/commercial waste reduction & recycling goal and the 66 percent industrial waste reduction and recycling goal in all remaining years of the planning period.

**[NOTE:** *If Tables K-1 or K-2 show that the SWMD's rates will fall below 25 percent or 66 percent during the planning period, then the policy committee will develop new and/or expand existing programs to achieve greater diversion, describe those new and/or expanded programs in Appendix I, develop projections in Appendix E and/or Appendix F, and describe in the space below how the new and/or expanded programs will allow the SWMD to achieve the goal.*]

In the space after Table K-3 reserved with “[replace with text to explain the SWMD’s demonstration of achieving Goal 2]”, provide text to explain how the SWMD will achieve Goal 2 (i.e. how what the policy committee commits the SWMD to doing will result in the SWMD achieving the goal).. At a minimum, identify the specific programs and activities from Appendix I that will recover the material needed to achieve Goal 2 with a focus on which of the identified programs and activities will contribute the most to achieving Goal 2.

**[NOTE:** *Some of the information for this explanation will come from the diversion analysis completed in Appendix H.*]

### **SWMDs Achieving Goal 1**

In addition to 1 above, a policy committee opting for its SWMD to achieve Goal 1 must complete 5

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**AND** 6 below.

- 5) Compare the SWMD's waste reduction and recycling rate in the reference year with the rate projected for that year in the current approved plan and develop conclusions about differences.
- 6) A policy committee opting for its SWMD to demonstrate achieving Goal 1 that didn't meet the recycling rates prescribed by Goal 2 in the reference year must establish target recycling rates to be achieved. These rates must be higher than the rates shown for the reference year. The policy committee must also demonstrate achieving annual increases in its waste reduction/recycling rates. These increases must correlate to what the SWMD will do to achieve the increases.

In the space after Table K-3 reserved with “[replace with text to explain the SWMD's progress toward achieving Goal 2]”, identify the SWMD's targeted waste reduction and recycling rates and explain how the SWMD will achieve the target rates (i.e. how what the policy committee commits the SWMD to doing will result in the SWMD achieving the targeted rates). At a minimum, identify the specific programs and activities from Appendix I that will recover the material needed to achieve the targeted rates.

**[NOTE:** *Some of the information for this explanation will come from the diversion analysis completed in Appendix H.*]





