

## **Attachment 1: Description of Emission Reduction Measure Form**

Please fill out one form for each emission reduction measure. See instructions in Attachment 2.

**Title: Recycling Protocol**

**Type of Measure (check all that apply):**

- |   |   |
|---|---|
| <input type="checkbox"/> Direct Regulation                          | <input checked="" type="checkbox"/> Market-Based Compliance |
| <input type="checkbox"/> Monetary Incentive                         | <input type="checkbox"/> Non-Monetary Incentive             |
| <input type="checkbox"/> Voluntary                                  | <input type="checkbox"/> Alternative Compliance Mechanism   |
| <input checked="" type="checkbox"/> Other Describe: <b>Protocol</b> |   |

**Responsible Agency: ARB/CCAR/CIWMB**

**Sector:**

- |   |  |
|---|--|
| <input type="checkbox"/> Transportation   | <input type="checkbox"/> Electricity Generation                                      |
| <input type="checkbox"/> Other Industrial | <input type="checkbox"/> Refineries  |
| <input type="checkbox"/> Agriculture      | <input type="checkbox"/> Cement  |
| <input type="checkbox"/> Sequestration    | <input checked="" type="checkbox"/> Other Describe: <b>Solid Waste and Recycling</b> |

**2020 Baseline Emissions Assumed (MMT CO<sub>2</sub>E):**

**Percent Reduction in 2020:**

**Cost-Effectiveness (\$/metric ton CO<sub>2</sub>E) in 2020:**

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**Description:** Neither the California Climate Action Registry nor the ARB has adopted a greenhouse gas protocol for recycling and this will result in a lack of incentives for recycling under a market-based system, despite recycling's potential as a greenhouse gas reduction measure.

Ton for ton, recycling reduces more pollution, saves more energy and reduces GHG emissions more than any other solid waste management option. Despite a robust materials collection infrastructure and achievement of a 50% diversion rate statewide, Californians disposed over 42 million tons of solid waste in 2004. Over 60% of these materials were recyclable.

Recycling reduces GHG emissions in two important ways. First, recycling keeps materials out of the landfill, thus avoiding methane emissions. More importantly, recycling reduces emissions associated with the mining, processing, and transportation of virgin resources. Everyday consumer products such as paper and aluminum cans are made from virgin materials mined from the earth, transported great distances, and

eventually processed with industrial machinery. This all results in significant GHG emissions.

The lack of an accurate and quantifiable protocol for recycling will hinder the expansion of recycling under any upcoming cap-and-trade system, and we urge you to work with CCAR and the CIWMB to create this protocol.

**Emission Reduction Calculations and Assumptions:**

**Cost-Effectiveness Calculation and Assumptions:**

**Implementation Barriers and Ways to Overcome Them:**

**Potential Impact on Criteria and Toxic Pollutants:**

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