

27 WHEREAS, many of Utah's residents live in areas that experience periods when fine
28 particulate or ozone pollution exceeds federal air quality standards;

29 WHEREAS, the Wasatch Front's and Cache Valley's unique geography are major
30 contributors to serious air pollution during winter inversions as polluted ~~H→~~ [warmer] colder ←H
30a air is trapped
31 by ~~H→~~ [colder] warmer ←H air and hemmed in by Utah's mountain ranges;

32 WHEREAS, according to the Utah Foundation, "Studies have shown that ozone and
33 inversion-type particulate exposure can shorten life expectancy, exacerbate cardiovascular and
34 respiratory issues, and increase infant mortality rates";

35 WHEREAS, as Utah's population continues to grow, so will the challenges to reducing
36 vehicle pollutants;

37 WHEREAS, vehicle miles traveled in the state of Utah are expected to double between
38 2013 and 2040;

39 WHEREAS, areas that fail to comply with the National Ambient Air Quality Standards'
40 pollutant standards are classified as "nonattainment" areas, and vehicle sources account for a
41 large percentage of emissions in Utah's nonattainment counties;

42 WHEREAS, during the winter, 48% of the emissions that lead to fine particulate
43 pollution along the Wasatch Front comes from mobile sources;

44 WHEREAS, vehicles account for 45% of the emissions that lead to summertime ozone
45 formation;

46 WHEREAS, the United States Environmental Protection Agency (EPA) requires that a
47 new vehicle be tested and its emissions analyzed before it is sold;

48 WHEREAS, the EPA provides a "smog rating" for vehicles that reflects tailpipe
49 emissions that contribute to local and regional air pollution;

50 WHEREAS, smog ratings range from one to 10, with one being the most polluting to
51 the environment and 10 being the least polluting;

52 WHEREAS, the average new vehicle sold has a smog rating of five;

53 WHEREAS, purchasing a vehicle with a smog rating of eight results in one-fifth the
54 emissions of a vehicle with a smog rating of five;

55 WHEREAS, all new vehicles model year 2013 or newer are sold with a label featuring
56 the vehicle's smog rating and other information regarding the vehicle's environmental impact;

57 WHEREAS, emissions standards for used vehicles can be identified by locating the