COSEE-West Lectures, February 16, 2011 A case study of a harmful algal bloom in a freshwater ecosystem, by Adriane Jones & Amnesic shellfish poisoning in California coastal waters by Erica Seubert

California Science Content Standards that can incorporate Harmful Algal Blooms:

Kindergarten - Life Sciences 2a

1st grade – Life Sciences 2a

2nd grade – Life Sciences 2a, b, d

3rd grade – Life Sciences 3a – d

4th grade – Life Sciences 2b, 3b, d

5th grade – Life Sciences 2 f, g, Earth Science 3a

6th grade – Earth Sciences 2b, Ecology 5a – e

7th grade – Cell biology 1b-e,

8th grade – Reactions 5e, Chemistry of Living Systems 6a, Density and Buoyancy 8c,d

9th – 12th Chemistry 5d, Biology 1a,c, f, j, Ecology a-e, g, Earth Science 4b, 5d, g, 7a,b

Ocean Literacy Principles and Concepts that can incorporate Harmful Algal Blooms:

1 c, e, g 3 e, f 4 a 5 a – h 6 a, e, g 7a - f