Regional Science Consortium Erosion – Mitigation Mission

Student Worksheet

1. Record your observations in the table below:

Table 1: Average percentage of sand remaining in trough for various erosion mitigation scenarios.

| Scenario | Mitigation Material(s) | Percentage of Soil Eroded (Average) | Additional Comments |
|----------|---------------------------|--|------------------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

2. What scenario appeared to be the most effective method of erosion mitigation? Why do you think it is the most effective?

3. How would you mix mitigation methods, or change the ratios of materials added to make the most effective method of preventing erosion?

4. How might your design look if scaled up to full size in the real world?

5. How might plants affect the erosion of the sand if they were added into our solution?