

Answer Key: Serial Dilution Lab for Environmental Monitoring 6<sup>th</sup>-8<sup>th</sup>

Well #	Beginning concentration	Dilution Factor	Final Concentration	Color and observations
1	10% or 1/10th	1/10	1/10 <sup>th</sup> or 10%	Dye color; black
2	1/10	1/10	1/100	Black
3	1/100	1/10	1/1000	Gray
4	1/1000	1/10	1/10,000	Light gray
5	1/10,000	1/10	1/100,000	Almost clear
6	1/100,000	1/10	1/1,000,000 (ppm)	Clear
7	1/1,000,000	1/10	1/10,000,000	Clear
8	1/10,000,000	1/10	1/100,000,000	Clear
9	1/100,000,000	1/10	1/1,000,000,000 (ppb)	Clear