

Experiment 6 Lab Report: Name \_\_\_\_\_ Section (M-1) (M-3) (W-1) (W-3)  
Dr. Hahn sections Show all work for partial and full credit. Water Lab (AgCl PPT) Circle your section.

My Lab Partners were: \_\_\_\_\_

By writing down your data on this sheet, you earn 50% of your grades. The other questions below are the remaining 50% of your lab report grade. If you missed the lab with an excuse, you should pre-arrange with someone in the lab to provide the data for this lab.

1. DATA (50%)

(a) volume seawater (10 pt) \_\_\_\_\_ (b) mass seawater (10 pt) \_\_\_\_\_

(c) mass dry filter paper (10 pt) \_\_\_\_\_ d) mass AgCl & Filter Paper (10 pt) \_\_\_\_\_

(e) mass AgCl (5 pt) \_\_\_\_\_ (f) show work (5 pt)

2. CALCULATION

(g) Formula mass AgCl(2 pt) \_\_\_\_\_ (h) show work(3 pt)

(i) Moles AgCl(2 pt) \_\_\_\_\_ (j) show work (3 pt)

(k) Moles of  $\text{Cl}^-$  (2 pt) \_\_\_\_\_ (l) show work (3 pt)

(m) Mass  $\text{Cl}^-$  in your sample (2 pt) \_\_\_\_\_ (n) show work (3 pt)

(o) Mass %  $\text{Cl}^-$  in seawater (2 pt) \_\_\_\_\_ (p) show work (3 pt)

(q) If all  $\text{Cl}^-$  is from NaCl, # moles of  $\text{Na}^+$  (1 pt) \_\_\_\_\_

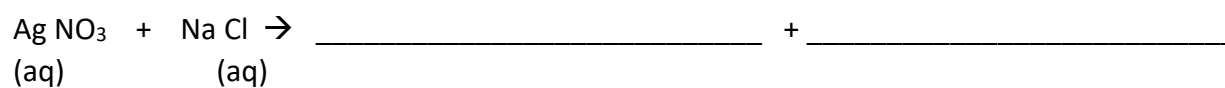
(r)grams  $\text{Na}^+$  (1 pt) \_\_\_\_\_ (s) show work (3 pt)

(t) Mass % Na<sup>+</sup> in seawater (2 pt) \_\_\_\_\_ (u) show work (3 pt)

(v) molarity of NaCl in your seawater (2 pts) \_\_\_\_\_ (w) Show work (3 pts)

3. Complete the ionic reaction of AgNO<sub>3</sub> with NaCl (6% pts, 2 % pts each)

(1) Molecular equation:



(2) Total ionic equation:

(3) Net ionic equation:

4. Look up on the internet and list one factor resulting in high or low salinity of ocean water. (4 pts)

