**Date: \_\_\_\_\_\_\_\_\_\_\_ Inorganic Analysis Summary Form Sample ID # \_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Step 12 | | | | **Step**  **16** | **Step**  **18** | **Step 19** | | | | **Step 20** | | **Step**  **21** | | **Step**  **22** | | **Step**  **23** | | **Step**  **24** | | **Step**  **25** | | **Step**  **26** | | **Step**  **27** | | **CONFIRMATION**  **TESTS** | | | | | |
| **MA III** | **MA IV** | **MA V** | **MA VI** | **MA I** | **MA II** | **MA III** | **MA IV** | **MA X** | **MA VI** | **MA VII** | | **MA VII** | | **MA VII** | | **MA VII** | | **MA VIII** | | **MA VIII** | | **MA IX** | | **MA III** | | **highlight if**  **indicated:** | | | | | |
| Test Tube  **3** | **Test Tube**  **4** | **Test**  **Tube**  **5** | **Test Tube**  **6** | flame color | **glass color** | **Test Tube**  **3** | **Test Tube**  **4** | **Test**  **Tube**  **5** | **Test Tube**  **6** | **Test Tube**  **7** | | **Test Tube**  **7** | | **Test Tube**  **7** | | **Test Tube**  **7** | | **Test Tube**  **8** | | **Test Tube**  **8** | | **Test Tube**  **9** | | **filter paper** | | **check if**  **confirmed:** | | **C:\Documents and Settings\Dan Keenan\Local Settings\Temporary Internet Files\Content.IE5\PLWDGQQY\MC900434665[1].wmf** | | **C:\Documents and Settings\Dan Keenan\Local Settings\Temporary Internet Files\Content.IE5\PLWDGQQY\MC900434665[1].wmf** | |
| Refer to Charts pages 163-167 – Highlight colors observed when instructed to by indicated Step #’s at top of column | | | | | | | | | | | | | | | | | | | | | | | | | | **CATIONS:** | | **page** | | **page** | |
|  | **white gel** | **white gel** |  |  |  |  | **white gel** | **white gel** |  |  | |  | |  | | white | |  | |  | |  | |  | | Aluminum | | **17** | | **93** | |
|  | **white solid** | **white solid** |  | green  tinge |  |  | **white solid** | **white solid** |  |  | |  | | red  orange | | colors  vanish | |  | |  | |  | |  | | Antimony | | **29** | |  | |
|  |  | yellow |  | blue |  |  |  | yellow |  |  | |  | | yellow  green | | colors  vanish | |  | |  | |  | |  | | Arsenic | | **29** | |  | |
|  |  | **white solid** |  | yellow green |  |  |  | **white solid** |  |  | |  | |  | |  | |  | |  | |  | |  | | Barium | | **31** | | **15** | |
|  | **white gel** | **white gel** |  |  |  |  | **white gel** | **white gel** |  |  | |  | |  | |  | |  | |  | |  | |  | | Beryllium | | **17** | |  | |
|  | **white solid** | **white solid** |  | green  tinge |  |  | **white solid** | **white solid** |  |  | |  | | brown | |  | |  | |  | | orange | |  | | Bismuth | | **39** | | **53** | |
| yellow white |  | white solid |  |  |  | yellow white |  | white solid |  |  | |  | |  | | yellow | |  | |  | | cherry red | | yellow white | | Cadmium | | **39** | |  | |
|  |  | white solid |  | orange  red |  |  |  | white solid |  |  | |  | |  | |  | |  | |  | |  | |  | | Calcium | | **15** | |  | |
|  | pink | green,  turquoise | blue |  | yellow green |  | pink | green,  turquoise | blue |  | |  | |  | |  | |  | |  | | chalky pink | |  | | Chromium III | | **51** | |  | |
|  | grey green |  |  |  | jade green |  | grey green |  |  |  | |  | |  | |  | | red violet | | pink  purple | |  | |  | | Chromium VI | | **17** | | **15** | |
| emerald green | amber, blue | pink purple | pink purple |  | blue | emerald green | amber, blue | pink purple | pink purple |  | |  | |  | | black | |  | | red | | dark purple | | emerald green | | Cobalt | | **53** | | **103** | |
| brown | blue | blue | green | green | aqua | brown | blue | blue | green |  | |  | | black | |  | |  | | red  brown | | green, brown | | brown | | Copper | | **57** | | **93** | |
|  |  |  | yellow |  | pink-purple,  caramel |  |  |  | yellow | gold | | gold | | honey,  gold | | honey,  gold | |  | |  | | dark  red | |  | | Gold | | **NA** | |  | |
| dark blue | rust | rust | yellow |  | yellow  green | dark blue | rust | rust | yellow |  | |  | |  | | black | |  | |  | | chalky pink | | dark blue | | Iron | | **53** | | **103** | |
|  |  |  | white solid | white blue |  |  |  |  | white solid |  | |  | |  | | black | |  | | bright  orange | | hot pink | |  | | Lead | | **31** | | **57** | |
|  |  |  |  | very  red |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | | Lithium | | **NA** | |  | |
|  | white solid | white solid |  |  |  |  | white solid | white solid |  |  | |  | |  | |  | |  | |  | |  | |  | | Magnesium | | **89** | | **15** | |
| pink | rust | brown |  | green | dark purple | pink | rust | brown |  |  | |  | |  | |  | |  | | pink, orange | |  | | pink | | Manganese | | **93** | | **103** | |
| light blue | white solid | yellow, black | white solid |  |  | light blue | white solid | yellow, black | white solid | black,white,  amber | | black,  amber | | black | |  | | purple | | purple  brown | | light purple | | light blue | | Mercury | | **95** | | **119** | |
| brown |  |  | green | lime  yellow | brown | brown |  |  | green |  | |  | | bronze,  brown | | amber | | pink, rose | |  | |  | | brown | | Molybdenum | | **101** | | **93** | |
| blue green | blue |  | green |  | brown, grey | blue green | blue |  | green |  | |  | |  | | black | |  | | pink, rose | | dirty brown | | blue green | | Nickel | | **103** | |  | |
|  |  |  | yellow |  |  |  |  |  | yellow |  | |  | |  | |  | |  | |  | |  | |  | | Palladium | | **103** | |  | |
|  |  |  | yellow |  |  |  |  |  | yellow |  | |  | |  | |  | |  | |  | |  | |  | | Platinum | | **103** | |  | |
|  |  |  |  | light purple |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | | Potassium | | **NA** | |  | |
|  |  |  | yellow |  |  |  |  |  | yellow |  | |  | |  | |  | |  | |  | |  | |  | | Rhodium | | **NA** | |  | |
|  |  |  | yellow | blue | yellow |  |  |  | yellow | yellow | | yellow | | yellow | | yellow | |  | |  | |  | |  | | Selenium | | **NA** | |  | |
| orange |  | brown | white solid |  | yellow | orange |  | brown | white solid | amber | | amber | | black,  bronze | | colors  vanish | |  | | black | | light purple | | orange | | Silver | | **143** | | **57** | |
|  |  |  |  | yellow |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | | Sodium | | **NA** | |  | |
|  |  |  |  | orange  red |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | | Strontium | | **15** | | **93** | |
|  |  |  |  | green |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | | Tellurium | | **NA** | |  | |
| yellow orange | green brown | green brown |  | green |  | yellow orange | green brown | green brown |  |  | |  | |  | |  | |  | |  | | cherry red | | yellow orange | | Thallium | | **NA** | |  | |
|  | white solid | white solid |  | blue |  |  | white solid | white solid |  |  | |  | |  | | brown | |  | |  | | chalky pink | |  | | Tin | | **153** | | **93** | |
|  |  |  |  |  | blue |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | | TItanium | | **155** | |  | |
| brown |  |  |  |  | green | brown |  |  |  |  | |  | |  | |  | |  | |  | |  | | brown | | Uranium | | **159** | |  | |
| orange |  | brown |  |  | green | orange |  | brown |  |  | |  | |  | |  | |  | |  | |  | | orange | | Vanadium | | **155** | | **93** | |
| yellow white |  |  |  | blue |  | yellow white |  |  |  |  | |  | | white | | white | |  | |  | | hot pink | | yellow white | | Zinc | | **39** | |  | |
|  |  |  | **white solid** |  |  |  |  |  | **white solid** |  | |  | |  | |  | |  | |  | |  | |  | | Tungsten | | **157** | |  | |
|  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |

**Note:**  When you have completed Step 28 - do Confirmation Tests for all Metals indicate

**Metals Indicated by Previous Tests: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12/29/12**

#### Anions Indicated from Anions Chart: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_