Alkalinity Data Sheet

| Station Name | Station Number | |
|---|--|---|
| River/Stream | | / |
| Volunteer Group | Time of sample : | |
| PART I - Phenolphthalein Alkalinity | | |
| 1. Amount of sample used (should be 50 n | nl): | mL |
| 2. pH value S.U. (if pH is less than 8.3, phenolphthalein alkalinity sho your flask? Clean flask and try again.) | Is pH greater than 8.3? □Yes ould be 0 mg/L– check your results! Do you | □No need to clean |
| Add phenolphthalein indicator. Did solut If YES → continue with step 4. If NO → record phenolphthalein alka | _ | _No urt II. |
| Make sure your burette is zeroed and there of burette. Your starting point on the burette | | air bubbles in tip |
| 4. Titrate from a pink to a clear, record mL | of H ₂ SO ₄ you added mI H | l₂SO₄ used |
| 5. Multiply mL of H ₂ SO ₄ used by 40. Recore Example: 0.2 ml H ₂ SO ₄ tit | rd this as the phenolphthalein alkalin trant used x 40 = 8.0 mg/L CaCo₃ | ity. |
| | | |
| Phenolphthalein Alkalinity Result (Phenolphthalein values should be equal to or less than 6 | | /L CaCo₃ |
| (Phenolphthalein values should be equal to or less than 6 (Note: If you have phenolphthalein a | 0 mg/L.) | |
| (Phenolphthalein values should be equal to or less than 6 (Note: If you have phenolphthalein a continuing.) | 0 mg/L.) | |
| (Phenolphthalein values should be equal to or less than 6 (Note: If you have phenolphthalein a continuing.) PART II - Total Alkalinity | 0 mg/L.) Ikalinity, DO NOT rezero the b | <mark>urette before</mark> |
| (Phenolphthalein values should be equal to or less than 6 (Note: If you have phenolphthalein a continuing.) PART II - Total Alkalinity 6. Add BGMR indicator. Did solution turn be | omg/L.) Ikalinity, DO NOT rezero the bolue? | <mark>urette before</mark> □No |
| (Phenolphthalein values should be equal to or less than 6 (Note: If you have phenolphthalein a continuing.) PART II - Total Alkalinity | omg/L.) Ikalinity, DO NOT rezero the bolue? | <mark>urette before</mark> □No |
| (Phenolphthalein values should be equal to or less than 6 (Note: If you have phenolphthalein a continuing.) PART II - Total Alkalinity 6. Add BGMR indicator. Did solution turn b 7. Titrate from turquoise to pink-gray. Rec 8. Multiply ml of H ₂ SO ₄ used by 20. This is | Ikalinity, DO NOT rezero the believe? Ord mL of H2SO4 added. The total alkalinity. | <mark>urette before</mark> □No |
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| (Phenolphthalein values should be equal to or less than 6 (Note: If you have phenolphthalein a continuing.) PART II - Total Alkalinity 6. Add BGMR indicator. Did solution turn b 7. Titrate from turquoise to pink-gray. Rec 8. Multiply ml of H₂SO₄ used by 20. This is Example: 2.5 ml H₂SO₄ Total Alkalinity result (Total alkalinity includes phenolphthalein value. Do not zee | Ikalinity, DO NOT rezero the believe? Ikalinity, DO NOT rezero the believe? Ikalinity, DO NOT rezero the believe with the believe and the believe with the believe with the believe with the total alkalinity. It is the total alkalinity and the believe with the | urette before □No ml H₂SO₄ /L CaCo₃ |

River Watch SOP 6.4 Alkalinity Data Sheet July 2021